

# 18F

- (-)-7-Methyl-2-*exo*-[3'-(6-[<sup>18</sup>F]fluoropyridin-2-yl)-5'-pyridinyl]-7-azabicyclo[2.2.1]heptane
- (+)-2-Hydroxy-3-isobutyl-9-(3-[<sup>18</sup>F]fluoropropoxy)-10-methoxy-1,2,3,4,6,7-hexahydro-11*bH*-benzo[*a*]quinolizine
- (1*R*,2*S*,3*S*,5*S*)-Methyl-8-{[(1*S*,2*S*)-2-([<sup>18</sup>F]fluoromethyl)cyclopropyl)methyl}-3-phenyl-8-azabicyclo[3.2.1]octane-2-carboxylate
- (20*R*)-4,5- $\alpha$ -Epoxy-6-(2-[<sup>18</sup>F]fluoroethoxy)-3-hydroxy- $\alpha$ ,17-dimethyl- $\alpha$ -(2-phenyleth-1-yl)-6,14-ethenomorphinan-7-methanol
- (3*R*,5*R*)-5-(3-(2-[<sup>18</sup>F]Fluoroethoxy)phenyl)-3-((*R*)-1-phenyl-ethylamino)-1-(4-trifluoromethyl-phenyl)-pyrrolidin-2-one
- (3*R*,5*R*)-5-(3-[<sup>18</sup>F]Fluoromethoxy-*d*<sub>2</sub>)phenyl)-3-((*R*)-1-phenyl-ethylamino)-1-(4-trifluoromethyl-phenyl)-pyrrolidin-2-one
- (3*R*,5*R*)-5-(3-[<sup>18</sup>F]Fluoromethoxy-phenyl)-3-((*R*)-1-phenyl-ethylamino)-1-(4-trifluoromethyl-phenyl)-pyrrolidin-2-one
- (4*S*)-4-(3-[<sup>18</sup>F]Fluoropropyl)-L-glutamate
- (*E*)-2-(2-(2-(2-[<sup>18</sup>F]Fluoroethoxy)ethoxy)ethoxy)-5-(4-dimethylaminostyryl)-pyridine
- (*E*)-3-(4-(Dimethylamino)phenyl)-1-(4-(2-([<sup>18</sup>F]fluoroethoxy)ethoxy)ethoxy)phenyl)-2-propen-1-one
- (*E*)-3-(Pyridin-2-ylethynyl)-cyclohex-2-enone-*O*-2-(2-[<sup>18</sup>F]fluoroethoxy)ethyl oxime
- (*E*)-4-(2-(6-(2-(2-(2-[<sup>18</sup>F]-fluoroethoxy)ethoxy)ethoxy)pyridin-3-yl)vinyl)-*N*-methylbenzenamine
- (*R,S*)-2-(*N*-Propyl-*N*-5'-[<sup>18</sup>F]fluoropentyl)amino-5-hydroxytetralin
- (*R,S*)-*anti*-1-Amino-2-[<sup>18</sup>F]fluorocyclopentyl-1-carboxylic acid
- (*R*)-2-(*N*-Benzyl-4-(2-[<sup>18</sup>F]fluoroethoxy)phenylsulfonamido)-*N*-hydroxy-3-methylbutanamide
- (*R*)-2-Amino-3-[<sup>18</sup>F]fluoro-2-methylpropanoic acid
- (*R*)-3-[<sup>18</sup>F]Fluoro-2-methyl-2-*N*-(methylamino)propanoic acid
- (*S,S*)-2-( $\alpha$ -(2-[<sup>18</sup>F]Fluoro[<sup>2</sup>H<sub>2</sub>]methoxyphenoxy)phenoxy)benzyl)morpholine
- (*S,S*)-2-[ $\alpha$ -(2-(2-[<sup>18</sup>F]Fluoro[<sup>2</sup>H<sub>4</sub>]ethoxy)phenoxy)benzyl)morpholine

(S,S)-2-[ $\alpha$ -(2-(2-[<sup>18</sup>F]Fluoroethoxy)phenoxy)benzyl]morpholine

(S)-1-((1-(2-[<sup>18</sup>F]Fluoroethyl)-1*H*-[1,2,3]-triazol-4-yl)methyl)-5-(2,4-difluorophenoxy)methyl-pyrrolidine-1-sulfonyl)isatin

(S)-1-(4-(2-[<sup>18</sup>F]Fluoroethoxy)benzyl)-5-[1-(2-methoxymethyl-pyrrolidinyl)sulfonyl]-1*H*-indole-2,3-dione

(S)-2-Amino-3-[1-(2-[<sup>18</sup>F]fluoroethyl)-1*H*-[1,2,3]triazol-4-yl]propanoic acid

(S)-*N*-((1-Allyl-2-pyrrolidinyl)methyl)-5-(3-[<sup>18</sup>F]fluoropropyl)-2,3-dimethoxybenzamide

(S)-*N*-((1-Allyl-2-pyrrolidinyl)methyl)-5-(3-[<sup>18</sup>F]fluoropropyl)-2-methoxybenzamide

[<sup>18</sup>F]1-(2-Fluoroethyl)-4-[(4-cyanophenoxy)methyl]piperidine

[<sup>18</sup>F]1-(3-Fluoropropyl)-4-[(4-cyanophenoxy)methyl]piperidine

[<sup>18</sup>F]-2-(2-Nitroimidazol-1*H*-yl)-(3,3,3-trifluoropropyl)acetamide

[<sup>18</sup>F]3-(1*H*-Imidazol-4-yl)propyl-4-fluorobenzyl ether

[<sup>18</sup>F]3-Fluoro-5-[(2-methyl-1,3-thiazol-4-yl)ethynyl]benzotrile

[<sup>18</sup>F]3-Fluoro-5-[(pyridin-3-yl)ethynyl]benzotrile

[<sup>18</sup>F]-5-(2-fluoroethyl)2,4-diethyl-3-(ethylsulfanylcarbonyl)-6-phenylpyridine-5-carboxylate

[<sup>18</sup>F]5-(6-Fluorohexyn-1-yl)-3-[2(*S*)-2-azetidylmethoxy]pyridine

[<sup>18</sup>F]6-(2-Fluoropropyl)-4-methyl-pyridin-2-amine

[<sup>18</sup>F]6-fluoro-3-O-methyl-L-3,4-dihydroxyphenylalanine

[<sup>18</sup>F]FB-(Ac-NIe-Asp-His-D-Phe-Arg-Trp-Gly-Lys-NH<sub>2</sub>)

[<sup>18</sup>F]FB-NH-mini-PEG-E{E[c(RGDyK)]<sub>2</sub>}<sub>2</sub>

[<sup>18</sup>F]Fluoro-[1,2-<sup>2</sup>H<sub>4</sub>]choline

[<sup>18</sup>F]Fluoro-2-deoxy-2-D-glucose

[<sup>18</sup>F]-Fluoro-2-deoxy-D-glucose-folate

[<sup>18</sup>F]Fluorobenzaldehyde-leptin

[<sup>18</sup>F]Fluorobenzoyl-((VHPKQHRGGSY)<sub>2</sub>K)<sub>2</sub>KK

[<sup>18</sup>F]Fluorobenzoyl anti-HER2 Cys-diabody  
[<sup>18</sup>F]Fluorobenzoyl-PEGylated cyclic arginine-glycine-aspartic acid peptide  
[<sup>18</sup>F]Fluorobenzyl-bombesin[7-14]-c(RGDyK)  
[<sup>18</sup>F]Fluorobenzyl-PEG<sub>3</sub>-Glu-c(RGDyK)-bombesin[7-14]  
[<sup>18</sup>F]Fluorocholine  
[<sup>18</sup>F]Fluorodipalmitin-labeled liposomes  
[<sup>18</sup>F]Fluoroerythronitroimidazole  
[<sup>18</sup>F]Fluoroetanidazole  
[<sup>18</sup>F]Fluoroethylcholine  
[<sup>18</sup>F]Fluoroethyl-recombinant human interleukin-1 receptor antagonist  
[<sup>18</sup>F]Fluoromethyl-D-tyrosine  
[<sup>18</sup>F]Fluoromisonidazole  
[<sup>18</sup>F]Fluoropropyl-Tanaproget  
[<sup>18</sup>F]-Labeled (*R*)-(2-(2-(2-methylpyrrolidin-1-yl)ethyl)benzofuran-5-yl)(4-fluorophenyl)-methanone  
[<sup>18</sup>F]*N*-(2-benzofuranylmethyl)-*N'*-[4-(2-fluoroethoxy)benzyl]piperazine  
[<sup>18</sup>F]-*N*-(2-Chloro-6-methylphenyl)-2-(6-(4-(2-fluoroethyl)piperazin-1-yl)-2-methylpyrimidin-4-ylamino)thiazole-5-carboxamide  
[<sup>18</sup>F]-*N*-{4-[(4,5-Dichloro-2-fluorophenyl)amino]quinazoline-6-yl}-dimethylamine-butylamide  
[<sup>18</sup>F]Norchloro-fluoro-homoepibatidine  
[<sup>18</sup>F]SB209670  
[<sup>18</sup>F]Y1-973  
[<sup>18</sup>F]α/γ-Fluorobenzylamine-folate  
[2-[<sup>18</sup>F]Fluoromethoxy-5-(5-trifluoromethyl-tetrazol-1-yl)-benzyl]([2*S*,3*S*]2-phenyl-piperidin-3-yl)-amine  
1-(2,3-Dihydrobenzo[*b*][1,4]dioxin-6-yl)-4-((6-[<sup>18</sup>F]fluoropyridin-3-yl)methyl)piperazine  
1-(2'-Deoxy-2'-[<sup>18</sup>F]fluoroarabinofuranosyl)cytosine  
1-(2'-Deoxy-2'-[<sup>18</sup>F]fluoro-β-D-arabinofuranosyl)-5-iodocytosine

1-(2-[<sup>18</sup>F]Fluoro-3-pyridyl)-4-(2-isopropyl-1-oxo-isindoline-5-yl)-5-methyl-1H-1,2,3-triazole

1-(2-[<sup>18</sup>F]Fluoro-3-pyridyl)-4-(2-propyl-1-oxo-isindoline-5-yl)-5-methyl-1H-1,2,3-triazole

1-(2-((2R)-1-((2-[<sup>18</sup>F]Fluorophenyl)sulfonyl)pyrrolidin-2-yl)ethyl)-4-methylpiperidine

1-(2'-Deoxy-2'-[<sup>18</sup>F]-fluoro-β-D-arabinofuranosyl)thymine

1-(4-[<sup>18</sup>F]Fluoroethoxy-3-methoxyphenethyl)-4-(3-phenylpropyl)piperazine

1-(4-[<sup>18</sup>F]Fluoromethoxy-3-methoxyphenethyl)-4-(3-phenylpropyl)piperazine

1-(5-[<sup>18</sup>F]Fluoro-5-deoxy-α-D-arabinofuranosyl)-2-nitroimidazole

1-[<sup>18</sup>F]Fluoro-3,6-dioxatetracosane

1-[4-(2-[<sup>18</sup>F]Fluoroethoxy)-benzyl]-5-(2-phenoxyethyl-pyrrolidine-1-sulfonyl)-1H-indole-2,3-dione

1-[4-(3-[<sup>18</sup>F]Fluoropropoxy)-3-methoxyphenyl]-5-hydroxy-7-(4-hydroxy-3-methoxyphenyl)-1,4,6-heptatrien-3-one

<sup>11</sup>C-BMS-5p and <sup>18</sup>F-FBzBMS: radiolabeled analogs of BMS-207940, a potent and selective antagonist of endothelin receptor subtype A

16α-[<sup>18</sup>F]Fluoro-17β-estradiol

18-[<sup>18</sup>F]Fluoro-4-thia-oleate

18-[<sup>18</sup>F]Fluoro-4-thia-palmitate

<sup>18</sup>F-(2S,4R)4-fluoroglutamine

<sup>18</sup>F-1,4,7-Triazacyclononane-1,4,7-triacetic acid-10-maleimidoethylacetamide-Affibody Z<sub>HER2:2395</sub>

<sup>18</sup>F-6-Fluoro-N-[2-(diethylamino)ethyl]pyridine-3-carboxamide

<sup>18</sup>F-Fluoroethyl triazole-βAG-[(D)-Phe<sup>1</sup>-c(Cys<sup>2</sup>-Tyr<sup>3</sup>-(D)-Trp<sup>4</sup>-Lys<sup>5</sup>-Thr<sup>6</sup>-Cys<sup>7</sup>)Thr<sup>8</sup>]

<sup>18</sup>F-Labeled 4-(5-(2-(2-(2-fluoroethoxy)ethoxy)ethoxy)benzofuran-2-yl)-N,N-dimethylbenzenamine

<sup>18</sup>F-Labeled 5-(5-(2-(2-(2-fluoroethoxy)ethoxy)ethoxy)benzofuran-2-yl)-N,N-dimethylpyridin-2-amine

<sup>18</sup>F-Labeled 6-amino-2-(4'-fluorophenyl)-1,3-benzothiazole and other derivatives

<sup>18</sup>F-Labeled 6-methyl-2-(4'-fluorophenyl)-1,3-benzothiazole

<sup>18</sup>F-Labeled Cys-Z<sub>HER2:342</sub>, an anti-epidermal growth factor receptor-2 Affibody

- <sup>18</sup>F-Labeled exendin(9-39)
- <sup>18</sup>F-Labeled fluoropegylated 6-fluoroethoxy-4'-dimethylaminoflavone, 6-(2-(2-fluoroethoxy)-ethoxy)-4'-dimethylaminoflavone, and 6-(2-(2-(2-fluoroethoxy)-ethoxy)ethoxy)-4'-dimethylaminoflavone
- <sup>18</sup>F-Labeled *N*-(4-(6,7-dimethoxy-3,4-dihydroisoquinolin-2(1*H*)-yl)butyl)-2-(2-[<sup>18</sup>F]-fluoroethoxy)-5-iodo-3-methoxybenzamide
- <sup>18</sup>F-Labeled *N*-(4-(6,7-dimethoxy-3,4-dihydroisoquinolin-2(1*H*)-yl)butyl)-2-(2-fluoroethoxy)-5-methylbenzamide
- <sup>18</sup>F-Labeled *N*-(4-fluorobenzylidene)oxime-dimeric (Z<sub>HER2:477</sub>)<sub>2</sub>
- <sup>18</sup>F-Labeled *N*-(4-fluorobenzylidene)oxime-monomeric Z<sub>HER2:477</sub>
- <sup>18</sup>F-Labeled *N*-(4-fluorobenzylidene)oxime-  
VENK[homoC]NKEMRNRYWEAALDPNLNNQKRAKIRSIYDDP[homoC]-NH<sub>2</sub>  
with a disulfide bridge between the two homoC
- <sup>18</sup>F-Labeled neogalactosylalbumin
- <sup>18</sup>F-Labeled *N*-succinimidyl-4-fluorobenzoate-conjugated rat anti-mouse vascular endothelial growth factor receptor 2 monoclonal antibody linked to microbubbles
- <sup>18</sup>F-Labeled poly(L-lactic acid)-*block*-poly(sarcosine) lactosome, a polymer micelle
- <sup>18</sup>F-Tetrazine-*trans*-cyclooctene-Cys<sup>40</sup>-exendin-4
- 1-Deoxy-1-[<sup>18</sup>F]fluoro-*scyllo*-inositol
- 1-*O*-(4-(2-[<sup>18</sup>F]Fluoroethyl-carbamoyloxymethyl)-2-nitrophenyl)-*O*-β-D-glucopyronuronate
- 2'-Deoxy-2'-[<sup>18</sup>F]fluoro-5-fluoro-1-β-D-arabinofuranosyluracil
- 2'-Deoxy-2'-[<sup>18</sup>F]fluoro-1-β-D-arabinofuranosyl-adenine
- 2-((2-Amino-4-chloro-5-[<sup>18</sup>F]fluorophenyl)thio)-*N,N*-dimethylbenzenmethanamine
- 2-(+/-)-2-*exo*-(2'-[<sup>18</sup>F]Fluoro-3'-phenyl-pyridin-5'-yl)-7-azabicyclo[2.2.1]heptane
- 2-(1-{6-[(2-[<sup>18</sup>F]Fluoroethyl)(methyl)amino]-2-naphthyl}ethylidene)malononitrile
- 2-(2'-((Dimethylamino)methyl)-4'-(3-[<sup>18</sup>F]fluoropropoxy)-phenylthio)benzenamine
- 2-(2-(2-(4-((4-(Methylamino)phenyl)ethynyl)phenoxy)ethoxy)  
[<sup>18</sup>F]fluoroethoxy)ethyl-4-methylbenzenamine
- 2-(2-Nitro-1*H*-imidazol-1-yl)ethyl 2-[<sup>18</sup>F]fluoroacetate
- 2-(2-Nitro-1*H*-imidazol-1-yl)-*N*-(2,2,3,3,3-[<sup>18</sup>F]pentafluoropropyl)-acetamide
- 2-(2-Nitroimidazol-1*H*-yl)-(3-[<sup>18</sup>F]fluoropropyl)acetamide

2-(3-{1-Carboxy-5-[(6-[<sup>18</sup>F]fluoro-pyridine-3-carbonyl)-amino]-pentyl}-ureido)-pentanedioic acid

2-(4-(2-[<sup>18</sup>F]Fluoroethyl)piperidin-1-yl)benzo[4,5]imidazo[1,2-a]pyrimidine

2-(4-(4-[<sup>18</sup>F]Fluoro-butyl)-benzylsulfanyl)-3-methyl-chromen-4-one

2-(4-Aminophenyl)-6-(2-([<sup>18</sup>F]fluoroethoxy))quinoline

2-(5-[<sup>18</sup>F]Fluoro-pentyl)-2-methyl-malonic acid (ML-10)

2-(6-Chloro-2-(4-(3-[<sup>18</sup>F]fluoropropoxy)phenyl)imidazo[1,2-a]pyridin-3-yl)-*N,N*-diethylacetamide

2-[(2-chloro-2'-<sup>18</sup>F-fluorodiethyl)amino]-2*H*-1,3,2-oxazaphosphorinane-2-oxide

2-[(4-{{(2-amino-4-oxohydropteridin-7yl)methyl}amino}phenyl) carbonylamino]-4-{*N*-[(2-[<sup>18</sup>F]-fluoro(4-pyridyl))carbonylamino] carbamoyl}butanoic acid

2-[(4-{{(2-amino-4-oxohydropteridin-7yl)methyl}amino}phenyl) carbonylamino]-4-{*N*-[(4-[<sup>18</sup>F]-fluorophenyl)carbonylamino] carbamoyl}butanoic acid

2-[<sup>18</sup>F]Fluoro-3-[2-((*S*)-3-pyrrolinyl)methoxy]pyridine

2-[<sup>18</sup>F]Fluoro-3-[2(*S*)-2-azetidinylmethoxy]pyridine

2-[<sup>18</sup>F]Fluoroacetate

2-[<sup>18</sup>F]Fluoro-*N*-(2-(2-nitro-1*H*-imidazol-1-yl)ethyl)acetamide

2-[<sup>18</sup>F]Fluoropropionyl-osteosarcoma-specific peptide-1 (ASGALSPSRLDT)

2-[<sup>18</sup>F]Fluoropyridine-4-carbohydrazide-methotrexate

2-[4-(4-[<sup>18</sup>F]Fluorobutyl)benzylsulfanyl]-3-methylchromene-4-one

2-{3-[<sup>18</sup>F]Fluoro-4-(methylamino)phenyl}-1,3-benzothiazol-6-ol

2-{4-[-Pyridin-4-yl-1-(2-[<sup>18</sup>F]fluoro-ethyl)-1*H*-pyrazol-3-yl]-phenoxyethyl}-quinoline

2-Deoxy-2-[<sup>18</sup>F]fluorosorbitol

2-*tert*-Butyl-4-chloro-5-[4-(2-[<sup>18</sup>F]fluoroethoxymethyl)-benzyloxy]-2*H*-pyridazin-3-one

2-*tert*-Butyl-4-chloro-5-[4-(2-[<sup>18</sup>F]fluoro-ethoxymethyl)-benzyloxy]-3-(2*H*)-pyridazinone

2-*tert*-Butyl-4-chloro-5-[4-(4-[<sup>18</sup>F]fluoro-butyl)-benzyloxy]-2*H*-pyridazin-3-one

2 $\beta$ -Carbo(2-[<sup>18</sup>F]fluoroethoxy)-3 $\beta$ -(3'-((*Z*)-2-iodoethenyl)phenyl)nortropane

2 $\beta$ -Carbo(2-[<sup>18</sup>F]fluoroethoxy)-3 $\beta$ -(4'-((*Z*)-2-iodoethenyl)phenyl)nortropane

2 $\beta$ -Carbomethoxy-3 $\beta$ -(4-chlorophenyl)-8-(2-[<sup>18</sup>F]fluoroethyl)nortropane  
2'-[<sup>18</sup>F]Fluoroflumazenil  
2'-[<sup>18</sup>F]Fluorofolic acid  
3'-Aza-2'-[<sup>18</sup>F]fluorofolic acid  
3'-Deoxy-3'-[<sup>18</sup>F]fluoro-1- $\beta$ -D-xylofuranosyl-adenine  
3'-Deoxy-3'-[<sup>18</sup>F]fluorothymidine  
3-(2-(S)-3,4-Dehydropyrrolinyl methoxy)-5-(3'-[<sup>18</sup>F]fluoropropyl)pyridine  
3-(3-(3-[<sup>18</sup>F]Fluoropropyl)thio)-1,2,5-thiadiazol-4-yl)-1,2,5,6-tetrahydro-1-methylpyridine  
3-(4-[<sup>18</sup>F]Fluorobenzyl)-8-methoxy-1,2,3,4 tetrahydrochromeno[3,4-c]pyridin-5-one  
3-(Pyridin-2-ylethynyl)-cyclohex-2-enone-O-[<sup>18</sup>F]fluoroethyl-oxime  
3-[2-[4-(4-[<sup>18</sup>F]Fluorobenzoyl)-1-piperidyl]ethyl]-2-sulfanyl-3H-quinazolin-4-one  
3-{4-[2-[Benzoxazol-2-yl-methylamino]ethoxy]phenyl}-2-(2-[<sup>18</sup>F]fluoroethoxy)propionic acid  
3-Chloro-4-[<sup>18</sup>F]fluorophenyl-(4-fluoro-4-[[[(5-methyl-4-methylamino-pyridin-2-ylmethyl)-amino]-methyl]-piperidin-1-yl)methanone (F13714)  
3-Chloro-4-[<sup>18</sup>F]fluorophenyl-(4-fluoro-4-[[[(5-methyl-pyrimidin-2-ylmethyl)-amino]-methyl]-piperidin-1-yl)methanone (F15599)  
3-Cyano-4-[<sup>18</sup>F]fluoro-benzoyl-Ala(SO<sub>3</sub>H)-Ala(SO<sub>3</sub>H)-Ava-Gln-Trp-Ala-Val-NMeGly-His-Sta-Leu-NH<sub>2</sub>  
3-Cyano-4-[<sup>18</sup>F]fluoro-benzoyl-Ala(SO<sub>3</sub>H)-Ava-Gln-Trp-Ala-Val-NMeGly-His-Sta-Leu-NH<sub>2</sub>  
3-Cyano-4-[<sup>18</sup>F]fluoro-benzoyl-Arg-Ava-Gln-Trp-Ala-Val-NMeGly-His-Sta-Leu-NH<sub>2</sub>  
3-N-(2-[<sup>18</sup>F]Fluoroethyl)piperone  
3- $\beta$ -(4-Iodophenyl)tropane-2- $\beta$ -carboxylic acid 2-[<sup>18</sup>F]fluoroethyl ester  
4,16 $\alpha$ -[16 $\alpha$ -<sup>18</sup>F]Difluoro-11 $\beta$ -methoxyestradiol  
4-(2'-Methoxyphenyl)-1-[2'-(N-2''-1,3 pyrimidino)-p-[<sup>18</sup>F]fluorobenzamido]ethylpiperazine  
4-(2'-Methoxyphenyl)-1-[2'-(N-2''-pyridinyl)-p-[<sup>18</sup>F]fluorobenzamido]ethylpiperazine  
4-(2-(4-(4-[<sup>18</sup>F]Fluoro-butyl)-phenyl)ethoxy) quinazoline

4-(3-((5-(2-[<sup>18</sup>F]Fluoroethoxy)pyridine-2-yl)oxy)benzylidene)-*N*-(pyridazin-3-yl)piperidine-1-carboxamide

4-[<sup>18</sup>F]Fluoro-2-*D*-methyl-3-mercaptopropanoyl-*L*-proline

4-[<sup>18</sup>F]Fluorobenzenecarbohydrazide-methotrexate

4-[<sup>18</sup>F]Fluorobenzoyl-annexin V

4-[<sup>18</sup>F]Fluorobenzoyl-Arg-Arg-Natl-Cys-Tyr-Cit-Lys-*D*-Lys-Pro-Tyr-Arg-Cit-Cys-Arg-NH<sub>2</sub>

4-[<sup>18</sup>F]Fluorobenzoyl-C2A domain of synaptotagmin I-glutathione-*S*-transferase

4-[<sup>18</sup>F]Fluorobenzoyl-endothelin-1

4-[<sup>18</sup>F]Fluorobenzoyl-knottin 2.5D

4-[<sup>18</sup>F]Fluorobenzoyl-NAVPNLRGDLQVLAQKVART

4-[<sup>18</sup>F]Fluorobenzoyl-Phe-Ala-Leu-Gly-Glu-Ala-NH<sub>2</sub>

4-[<sup>18</sup>F]Fluorobenzoyl-rhenium-cyclized-Ac-*D*-Lys-[Cys<sup>3,4,10</sup>, *D*-Phe<sup>7</sup>, Arg<sup>11</sup>]α-MSH<sub>3-13</sub>

4-[<sup>18</sup>F]Fluorobenzoyl-T84.66 diabody

4-[<sup>18</sup>F]Fluorobenzoyl-ε-Lys<sup>1</sup>-c(KRGDe)MDDPGRNPH*hCit*GPAT

4-[<sup>18</sup>F]Fluorobenzyl-triphenylphosphonium

4-[<sup>18</sup>F]Fluoro-*L-m*-tyrosine

4-[<sup>18</sup>F]Fluoro-*N*-[4-[6-(isopropylamino)pyrimidin-4-yl]-1,3-thiazol-2-yl]-*N*-methylbenzamide

4-[<sup>18</sup>F]Fluoropaclitaxel

4-[5-(4-[<sup>18</sup>F]Fluoro-phenyl)-[1,3,4]oxadiazol-2-yl]-1,4-diaza-bicyclo[3.2.2]nonane

4-Bromo-1-(3-[<sup>18</sup>F]fluoropropyl)-2-nitroimidazole

5-(2-[<sup>18</sup>F]Fluoroethoxy)-*L*-tryphan

5-(5-(2-(2-(2-[<sup>18</sup>F]Fluoroethoxy)ethoxy)ethoxy)benzofuran-2-yl)-*N*-methylbenzenamine

5-(5-(2-(2-(2-[<sup>18</sup>F]Fluoroethoxy)ethoxy)ethoxy)benzofuran-2-yl)-*N*-methylpyridin-2-amine

5-[(*E*)-2-(4-[<sup>18</sup>F]Fluorophenyl)ethenyl]-1,3-benzenediol

5-[<sup>18</sup>F]Fluoro-2-(1-methyl-1*H*-pyrrolo[2,3-*b*]pyridin-5-yl)-oxazolo[5,4-*b*]pyridine

5-3'-[<sup>18</sup>F]Fluoropropyl-3-[2-((*S*)-pyrrolidinyl)methoxy]pyridine



6-(2-[<sup>18</sup>F]Fluoroethoxy)-2-[2-(4-methylaminophenyl)ethenyl]benzoxazole  
 6-(3'-[<sup>18</sup>F]Fluoropropyl)-2-(4'-dimethylamino)phenylimidazol[1,2- $\alpha$ ]pyridine  
 6-[1-(2-[<sup>18</sup>F]Fluoro-3-pyridyl)-5-methyl-1*H*-1,2,3-triazol-4-yl]quinoline  
 6-[<sup>18</sup>F]Fluoro-3-[2(S)-2-azetidinylmethoxy]pyridine  
 6-[<sup>18</sup>F]Fluorodopamine  
 6-[<sup>18</sup>F]Fluoro-*L-m*-tyrosine  
 6-Deoxy-6-[<sup>18</sup>F]fluoro-*D*-fructose  
 6-Iodo-2-[4'-*N*-(2-[<sup>18</sup>F]fluoroethyl)methylamino]phenylimidazo[1,2-*a*]pyridine  
 6-*O*-(2-[<sup>18</sup>F]Fluoroethyl)-6-*O*-desmethyldiprenorphine  
 8-Cyclopentyl-3-(3-[<sup>18</sup>F]fluoropropyl)-1-propylxanthine  
 9-(4-(2-[<sup>18</sup>F]Fluoroethyl)benzyl)-9-azabicyclo[3.3.1]nonan-3-yl-2-methoxy-5-methyl-phenylcarbamate  
 9-(4-[<sup>18</sup>F]Fluoro-3-hydroxymethylbutyl)guanine  
*Ad5*-(PSE-BC)-(GAL4-(VP16)<sub>2</sub>)-(GAL4)<sub>5</sub>-sr39*tk*  
 Al<sup>18</sup>F-1,4,7-Triazacyclononane,1-glutaric acid-4,7-acetic acid-Glu-[cyclo(Arg-Gly-Asp-D-Phe-Lys)]<sub>2</sub>  
 Al<sup>18</sup>F-1,4,7-Triazacyclononane-1,4,7-diacetic acid-8-aminooctanoic acid-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH<sub>2</sub>  
*anti*-1-Amino-2-[<sup>18</sup>F]fluorocyclobutane-1-carboxylic acid  
*anti*-1-Amino-3-[<sup>18</sup>F]fluorocyclobutane-1-carboxylic acid  
 CtPyPyIm-(R)<sup>H</sup><sub>2</sub>N <sub>$\gamma$</sub> -PyImPyPy-C<sub>3</sub>-<sup>18</sup>F  
 Cyclo(-Arg-Gly-Asp-D-Phe-Lys(( [<sup>18</sup>F]Fluoropropionyl)galacto-amino acid)-)  
 Cys-Arg-Pro-Pro-Arg-[<sup>18</sup>F]fluorodipalmitin-liposomes  
 Fluoro-pegylated (1E,4E)-1-(4-(dimethylamino)phenyl)-5-(4-(2-(2-(2-fluoroethoxy)ethoxy)ethoxy)phenyl)penta-1,4-dien-3-one and (1E,4E)-1-(4-(2-(2-(2-fluoroethoxy)ethoxy)ethoxy)phenyl)-5-(4-(methylamino)phenyl)penta-1,4-dien-3-one  
 ImPy $\beta$ ImPy $\beta$ Im $\beta$ -C<sub>3</sub>-<sup>18</sup>F  
 L-3,4-Dihydroxy-6-[<sup>18</sup>F]fluorophenylalanine  
 L- and D-S-(3-[<sup>18</sup>F]fluoropropyl)homocysteine  
*m*-Cyano-*p*-[<sup>18</sup>F]fluorohippurate

Methyl 2-(2-[<sup>18</sup>F]fluoro-4-nitrobenzamido)-3-methylbutanoate

Methyl 2-(2-[<sup>18</sup>F]fluoro-4-nitrobenzamido)-3-methylbutanoic acid

Methyl ester of 1-O-(4-(2-[<sup>18</sup>F]fluoroethyl-carbamoyloxymethyl)-2-nitrophenyl)-O-β-D-glucopyronurate

N-((E)-4-[<sup>18</sup>F]Fluorobut-2-en-1-yl)-2β-carbomethoxy-3β-(4'-fluorophenyl)nortropane

N-(2-(1-(4-(2-Methoxyphenyl)piperazinyl)ethyl))-N-(2-(6-[<sup>18</sup>F]fluoro)-pyridinyl)cyclohexanecarboxamide

N-(2-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)ethyl)-4-[<sup>18</sup>F]-fluorobenzamide ([<sup>18</sup>F]FBEM) conjugated to EM3106B, an analog of glucagon-like peptide-1

N-(2-(Diethylamino)ethyl)-6-[<sup>18</sup>F]fluoronicotinamide

N-(2-Diethylaminoethyl)-4-[<sup>18</sup>F]fluorobenzamide for imaging melanoma

N-(3-[<sup>18</sup>F]Fluoropropyl)-2β-carbomethoxy-3β-(4-iodophenyl)nortropane

N-(4-(4-(2-(2-[<sup>18</sup>F]Fluoroethoxy)phenyl)piperazine-1-yl)butyl)-4-(3-thienyl)benzamide

N-(4-[<sup>18</sup>F]Fluoro-benzoyl)-N'-{2-[5-(4-fluoro-benzyl)-1-(4-methoxy-benzyl)-4,6-dioxo-1,4,5,6-tetrahydro-[1,3,5]triazin-2-ylamino]-ethyl]-guanidine

N-(4-[<sup>18</sup>F]Fluorobenzyl)-4-(3-(piperidin-1-yl)indole-1-sulfonyl)benzamide

N-(5-Fluoro-2-phenoxyphenyl)-N-(2-[<sup>18</sup>F]fluoroethyl-5-methoxybenzyl)acetamide

N-(6-[<sup>18</sup>F]Fluoro-4-phenoxy-pyridin-3-yl)-N-(2-methoxybenzyl)acetamide

N-[<sup>18</sup>F]Fluoroacetyl-N-(2,5-dimethoxybenzyl)-2-phenoxyaniline

N-[<sup>18</sup>F]Fluoroethylpiperidin-4ylmethyl acetate

N-[2-(3-cyanophenyl)-3-(4-(2-[<sup>18</sup>F]fluoroethoxy)phenyl)-1-methylpropyl]-2-(5-methyl-2-pyridyloxy)-2-methylpropanamide

N-[2-(4-[<sup>18</sup>F]Fluorobenzamido)ethyl]maleimide-Cys-Z<sub>EGFR</sub>:1907

N-[2-(4-[<sup>18</sup>F]Fluorobenzamido)ethyl]maleimide-sulfhydryl-cyclic-arginine-glycine-aspartic acid dimeric peptide

N-[2-(4-[<sup>18</sup>F]Fluorobenzamido)ethyl]maleimide-sulfhydryl-cyclic-arginine-glycine-aspartic acid peptide

N-[2-[N-Ethyl-N-[2-(2-[<sup>18</sup>F]fluoropyridin-3-yloxy)ethyl]amino]ethyl]-6-iodoquinoxaline-2-carboxamide

N-[N-[(S)-1,3-Dicarboxypropyl]carbamoyl]-4-[<sup>18</sup>F]fluorobenzyl-L-cysteine

*N*-{2-[4-(2-Methoxyphenyl)piperazinyl]ethyl}-*N*-(2-pyridyl)-*N*-(4-[<sup>18</sup>F]-fluoromethylcyclohexane)carboxamide

*N*-2-(4-[<sup>18</sup>F]-Fluorobenzamido)ethylmaleimide coupled to cysteine-tagged epidermal growth factor

*N*-2-(4-[<sup>18</sup>F]-Fluorobenzamido)ethylmaleimide coupled to cysteine-tagged on the C- or N-terminal of exendin-4

*N*-4'-[<sup>18</sup>F]Fluorobenzylpiperidin-4yl-(2-fluorophenyl)acetamide

*N*-4-[<sup>18</sup>F]Fluorobenzoyl-c(RGDyK)

*N*-4-[<sup>18</sup>F]Fluorobenzoyl-c[(RGDyK)]<sub>2</sub>

*N*-4-[<sup>18</sup>F]Fluorobut-2-yn-1-yl-2β-carbomethoxy-3β-phenyltropane

*N*-Acetyl-*N*-(2-[<sup>18</sup>F]fluoroethoxybenzyl)-2-phenoxy-5-pyridinamine

*N*-Benzyl-*N*-ethyl-2-[7,8-dihydro-7-(2-[<sup>18</sup>F]fluoroethyl)-8-oxo-2-phenyl-9*H*-purin-9-yl]acetamide

*N*-Benzyl-*N*-methyl-2-[7,8-dihydro-7-(2-[<sup>18</sup>F]fluoroethyl)-8-oxo-2-phenyl-9*H*-purin-9-yl]acetamide

*O*-(2-[<sup>18</sup>F]Fluoroethyl)-*L*-tyrosine

*O*-(3-[<sup>18</sup>F]Fluoropropyl)-*L*-tyrosine

*p*-(2-[<sup>18</sup>F]Fluoroethyl)-*L*-phenylalanine

P<sup>2</sup>,P<sup>3</sup>-[<sup>18</sup>F]Monofluoromethylene diadenosine-5',5''-P<sup>1</sup>,P<sup>4</sup>-tetrphosphate

*Para*-[<sup>18</sup>F]-fluorohippurate

PEGylated 4-[<sup>18</sup>F]fluorobenzoyl-NAVPNLRGDLQVLAQKVART

Polyethylene glycol-Cys-Arg-Ser-Gly-Pro-Leu-Gly-Val-Tyr-[<sup>18</sup>F]fluorobenzoyl-Lys-Lys-tetramethylrhodamine

*syn*-1-Amino-3-[<sup>18</sup>F]fluorocyclobutane-1-carboxylic acid

Trans-1,2,3,5,6,10*b*-hexahydro-6-[4-([<sup>18</sup>F]fluoroethylthio)-phenyl]pyrrolo-[2,1-*a*]-isoquinoline

Trans-4-(*N*-Methylamino)-4'-{2-[2-(2-[<sup>18</sup>F]fluoro-ethoxy)-ethoxy]-ethoxy}-stilbene