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Central Nervous System (CNS) Stimulants

Updated: February 13, 2014.

OVERVIEW

Central nervous system stimulants used for attention deficit disorder, narcolepsy or excessive sleepiness include methylphenidate, atomoxetine, modafinil, armodafinil and the amphetamines. Stimulants that are no longer used for medical conditions, but that are abused, include cocaine and ecstasy or methylenedioxymetamphetamine (MDMA). The individual agents discussed include the following:

The following links are to individual drug records.

- Amphetamines (including ecstasy or methylenedioxymetamphetamine)
- Armodafinil
- Atomoxetine
- Cocaine
- Methylphenidate
- Modafinil

PRODUCT INFORMATION

REPRESENTATIVE TRADE NAMES

Dextroamphetamine – Generic, Adderall®, Dexedrine®

Dextroamphetamine and Amphetamine – Generic, Adderall®

Lisdexamfetamine – Vyvanse®

Methamphetamine – Generic, Desoxyn®

COMPLETE LABELING [Dextroamphetamine]

Product labeling at DailyMed, National Library of Medicine, NIH

CHEMICAL FORMULAS AND STRUCTURES

DRUG	CAS REGISTRY NUMBER	MOLECULAR FORMULA	STRUCTURE

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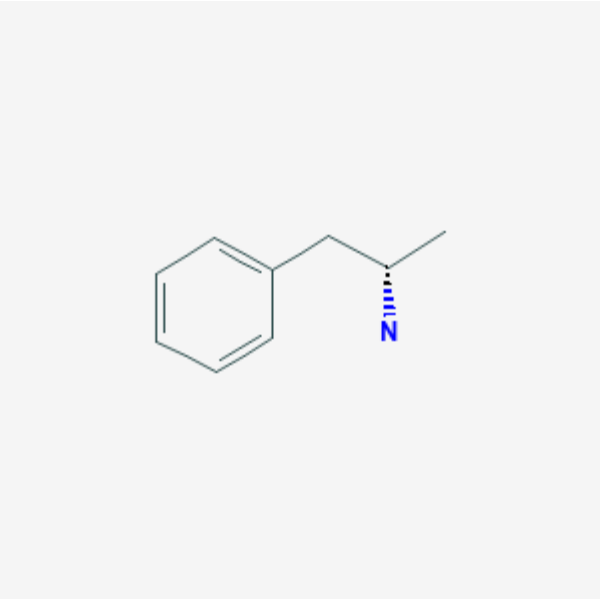
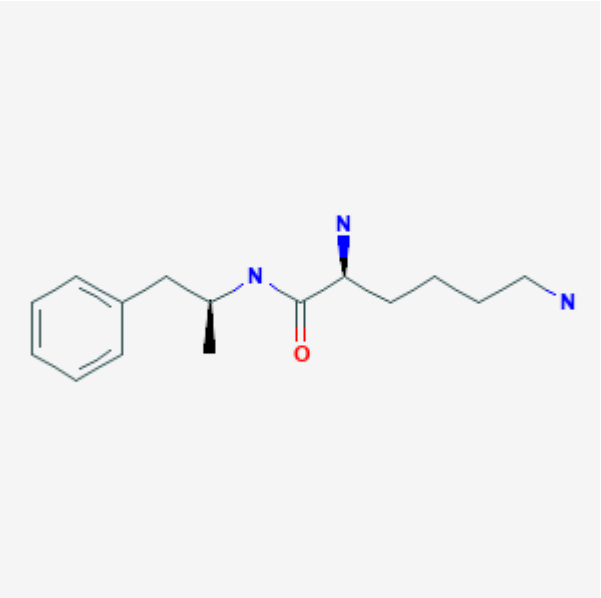
Dextroamphetamine	51-64-9	C9-H13-N	
Lisdexamfetamine	608137-32-2	C15-H25-N3-O	

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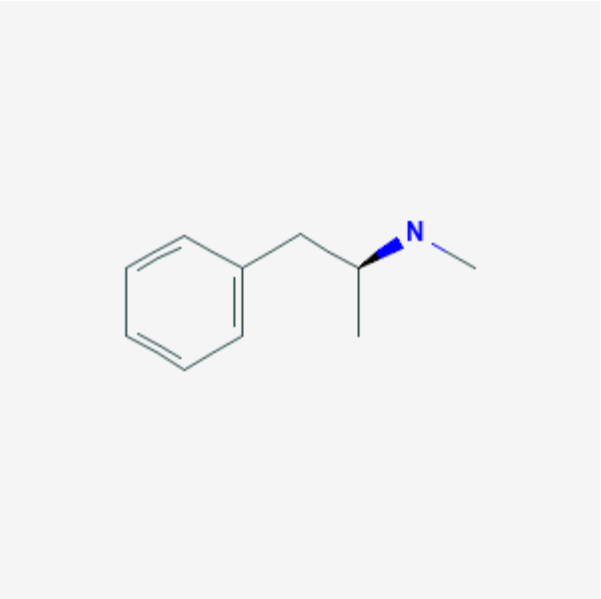
Methamphetamine	537-46-2	C10-H15-N	
Armodafinil	112111-43-0	C15-H15-N-O2-S