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Diethylpropion

National Cancer Institute

Source

National Cancer Institute. *Diethylpropion*. NCI Thesaurus. Code C61721.

An amphetamine derivative and a sympathomimetic stimulant with anti-obesity and appetite-suppressant properties. Diethylpropion stimulates neurons to release and maintain high levels of catecholamines including dopamine and norepinephrine resulting in a suppression of hunger signals and appetite. This agent may also indirectly affect leptin-neuropeptide Y (NPY) neurotransmission, which exerts control on metabolic processes such as food intake and body weight homeostasis. Via elevated catecholamine, diethylpropion indirectly elevates leptin levels in the brain, which in turn inhibits production of NPY, a potent stimulator of feeding behavior, thereby preventing the initiation of eating, increasing energy expenditure, and decreasing fat storage.