Caffeine

CNS stimulant

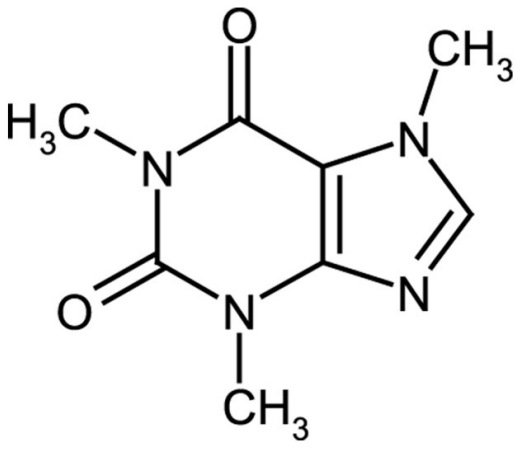
CNS stimulant. Blocks adenosine A1 and A2A receptors. cAMP phosphodiesterase inhibitor. Interferes with the uptake and storage of Ca2+ by the sarcoplasmic reticulum in skeletal muscle. Prevents apoptosis and cell cycle effects induced by various chemicals. Inhibits cellular DNA repair mechanisms. Anti-inflammatory.

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Ordering Information Order Online »

ALX-550-322-G005	5g

Manuals, SDS & CofA View Online »

O
CH3
H3C
N
N
O
N
N
CH3

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	1,3,7-Trimethylxanthine, 3,7-Dihydro-1,3,7-trimethyl-1H-purine-2,6-dione
Appearance	White to colorless powder.
CAS	58-08-2
Couple Target	Adenosine receptor, PDE
Couple Type	Blocker, Inhibitor
Formula	$C_8H_{10}N_4O_2$
Identity	Determined by IR.
MI	**14:** 1636
MW	194.2
Purity	≥99% (HPLC)
Solubility	Soluble in chloroform, 100% alcohol or hot water.
Source	Found in tea leaves, coffee beans, cocoa beans, maté leaves, guarana paste and kola nuts.

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