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DATASHEET

Caffeine

Product overview

Name Caffeine Cat No HB2846 **Biological action** Antagonist

Description Non-selective, competitive adenosine receptor antagonist / PDE inhibitor

Biological Data

Biological description Non-selective and competitive adenosine receptor antagonist (K_i values are 27-30 and 50 μ M at A_2

and A₁ receptors respectively). Improves attention and memory. Also inhibits phosphodiesterase. Shows potential protective actions against dementia and age-related memory decline and anti-cancer

actions.

Solubility & Handling

Storage instructions

Solubility overview

Important

-20°C

194.19

Soluble in water (100 mM), and in DMSO (50 mM)

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Chemical name Molecular Weight **Chemical structure** 1,3,7-Trimethylxanthine

Molecular Formula **CAS Number PubChem identifier**

SMILES InChiKey C8H10N4O2 58-08-2 2519

O=C1C2=C(N=CN2C)N(C)C(N1C)=O RYYVLZVUVIJVGH-UHFFFAOYSA-N