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# **DATASHEET**

Caffeine

### **Product overview**

NameCaffeineCat NoHB2846Biological actionAntagonist

**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  $\mu$ M at  $A_2$ 

and  $A_1$  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