Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Caffeine

Product overview

NameCaffeineCat NoHB2846Biological actionAntagonist

DescriptionNon-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

Solubility overview Storage instructions Storage of solutions Soluble in water (100 mM), and in DMSO (50 mM)

-20°C

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

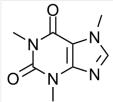
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

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

194.19



Molecular Formula CAS Number PubChem identifier SMILES C8H10N4O2 58-08-2 2519

InChiKey

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