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DATASHEET

Theophylline

Product overview

Name Theophylline
Cat No HB2849
Biological action Antagonist
Purity >98%

Description Adenosine receptor antagonist

Biological Data

Biological description Adenosine receptor antagonist and cyclic phosphodiesterase inhibitor. Shows bronchodilatory,

cardiostimulatory, anti-inflammatory and immunomodulatory actions.

Solubility & Handling

Solubility overview Soluble in water (25mM) and DMSO (100mM) Storage instructions -20 °C

Storage of solutions 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 Stable for ambient temperature shipping. Follow storage instructions on receipt.

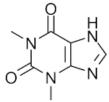
Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Chemical name Molecular Weight Chemical structure 3,7-Dihydro-1,3-dimethyl-1H-purine-2,6-dione

180.16



 SMILES
 O=C1C2=C(N=CN2)N(C)C(N1C)=O

 InChiKey
 ZFXYFBGIUFBOJW-UHFFFAOYSA-N

References

Theophylline is an antagonist of adenosine in human forearm arterioles

Taddei et al (1991) Am J Hypertens. 4

PubMedID 2043303

Theophylline and selective PDE inhibitors as bronchodilators and smooth muscle relaxants

Rabe et al (1995) 7664866 637-42