Datasheet

Product overview

Name 2,4-Diamino-6-hydroxypyrimidine
Cat No HB0070
Short description GTP cyclohydrolase I (GCH1) inhibitor
Biological description GTP cyclohydrolase I (GCH1) inhibitor. Decreases tetrahydrobiopterin (BH4) synthesis and suppresses NOS activity. Also causes a decrease in vascular cell adhesion molecule 1 (VCAM-1) cells in response to TNF-α and IFN-γ.
Biological action Inhibitor
Purity >98%

Properties

Chemical name DAHP
Molecular Weight 126.12
Molecular Formula C4H6N4O
CAS Number 56-06-4
PubChem identifier 2944
SMILES C1(CC(N=C(N1[H])[N([H])][H])=O)[N([H])[H]]
InChiKey SWELIMKTDYHAOY-UHFFFAOYSA-N

Storing and Using Your Product

Storage instructions +4 °C
Solubility overview Soluble in DMSO or water
Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for 2,4-Diamino-6-hydroxypyrimidine

GTP cyclohydrolase I inhibition by the prototypic inhibitor 2, 4-diamino-6-hydroxypyrimidine. Mechanisms and unanticipated role of GTP cyclohydrolase I feedback regulatory protein.
PubMedID: 9694862
2,4-Diamino-6-hydroxypyrimidine (DAHP) suppresses cytokine-induced VCAM-1 expression on the cell surface of human umbilical vein endothelial cells in a BH(4)-independent manner.


The mechanism of potent GTP cyclohydrolase I inhibition by 2,4-diamino-6-hydroxypyrimidine: requirement of the GTP cyclohydrolase I feedback regulatory protein.