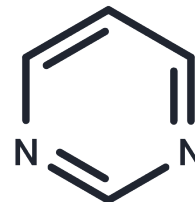


Pyrimidine

Chemical Properties

CAS No. :	289-95-2
Formula:	C ₄ H ₄ N ₂
Molecular Weight:	80.09
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Pyrimidine (Metadiazine)s are heterocyclic, six-membered, nitrogen-containing carbon ring structures, with uracil, cytosine and thymine being the basal structures of ribose-containing nucleosides (uridine, cytidine, and thymidine respectively), or deoxyribose-containing deoxynucleosides, and their corresponding ribonucleotides or deoxyribonucleotides. Pyrimidines serve essential functions in human metabolism as ribonucleotide bases in RNA (uracil and cytosine), and as deoxyribonucleotide bases in DNA (cytosine and thymine), and are linked by phosphodiester bridges to purine nucleotides in double-stranded DNA, in both the nucleus and the mitochondria. Pyrimidine activated sugars are also involved in polysaccharide and phospholipid synthesis, glucuronidation in detoxification processes, glycosylation of proteins and lipids and in the recently identified novel endothelium-derived vasoactive dinucleotides.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 60 mg/mL (749.16 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	12.486 mL	62.4298 mL	124.8595 mL
5 mM	2.4972 mL	12.486 mL	24.9719 mL
10 mM	1.2486 mL	6.243 mL	12.486 mL
50 mM	0.2497 mL	1.2486 mL	2.4972 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Loffler M, et al. Pyrimidine pathways in health and disease. Trends Mol Med. 2005 Sep;11(9):430-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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