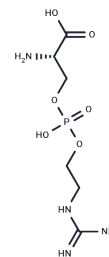


Lombricine

Chemical Properties

CAS No. :	18416-85-8
Formula:	C ₆ H ₁₅ N ₄ O ₆ P
Molecular Weight:	270.18
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Lombricine, as a phosphodiester of 2-guanidinoethanol and D-serine in structure, is a phosphagen that is unique to earthworms.
Targets(IC50)	Others,Amino Acids and Derivatives

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7012 mL	18.5062 mL	37.0124 mL
5 mM	0.7402 mL	3.7012 mL	7.4025 mL
10 mM	0.3701 mL	1.8506 mL	3.7012 mL
50 mM	0.074 mL	0.3701 mL	0.7402 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Doumen C. Variable intron/exon structure in the oligochaete lombricine kinase gene. *Gene*. 2012 Sep 1;505(2):276-82. doi: 10.1016/j.gene.2012.06.007. Epub 2012 Jun 12. PubMed PMID: 22705027.

Bush DJ, Kirillova O, Clark SA, Davulcu O, Fabiola F, Xie Q, Somasundaram T, Ellington WR, Chapman MS. The structure of lombricine kinase: implications for phosphagen kinase conformational changes. *J Biol Chem*. 2011 Mar 18;286(11):9338-50. doi: 10.1074/jbc.M110.202796. Epub 2011 Jan 6. PubMed PMID: 21212263; PubMed Central PMCID: PMC3058953.

Nagasawa H, Sawaki K, Fujii Y, Kobayashi M, Segawa T, Suzuki R, Inatomi H. Inhibition by lombricine from earthworm (*Lumbricus terrestris*) of the growth of spontaneous mammary tumours in SHN mice. *Anticancer Res*. 1991 May-Jun;11(3):1061-4. PubMed PMID: 1909513.

Ellington WR, Bush J. Cloning and expression of a lombricine kinase from an echiuroid worm: insights into structural correlates of substrate specificity. *Biochem Biophys Res Commun*. 2002 Mar 8;291(4):939-44. PubMed PMID: 11866456.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481