

Largazole

Chemical Properties

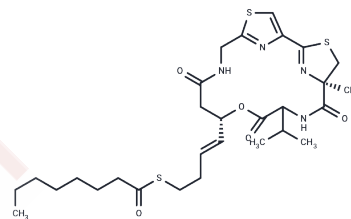
CAS No. : 1009815-87-5

Formula: C₂₉H₄₂N₄O₅S₃

Molecular Weight: 622.86

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	Largazole is a potent and selective histone deacetylase (HDAC) inhibitor and antiproliferative agent from <i>Symploca</i> .
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6055 mL	8.0275 mL	16.055 mL
5 mM	0.3211 mL	1.6055 mL	3.211 mL
10 mM	0.1605 mL	0.8027 mL	1.6055 mL
50 mM	0.0321 mL	0.1605 mL	0.3211 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

- Yu M, Salvador LA, Sy SK, Tang Y, Singh RS, Chen QY, Liu Y, Hong J, Derendorf H, Luesch H. Largazole pharmacokinetics in rats by LC-MS/MS. *Mar Drugs*. 2014 Mar 20;12(3):1623-40. doi: 10.3390/md12031623. PubMed PMID: 24658499; PubMed Central PMCID: PMC3967229.
- Decroos C, Clausen DJ, Haines BE, Wiest O, Williams RM, Christianson DW. Variable active site loop conformations accommodate the binding of macrocyclic largazole analogues to HDAC8. *Biochemistry*. 2015 Mar 31;54(12):2126-35. doi: 10.1021/acs.biochem.5b00010. Epub 2015 Mar 20. PubMed PMID: 25793284; PubMed Central PMCID: PMC4382410.
- Pilon JL, Clausen DJ, Hansen RJ, Lunghofer PJ, Charles B, Rose BJ, Thamm DH, Gustafson DL, Bradner JE, Williams RM. Comparative pharmacokinetic properties and antitumor activity of the marine HDACi Largazole and Largazole peptide isostere. *Cancer Chemother Pharmacol*. 2015 Apr;75(4):671-82. doi: 10.1007/s00280-015-2675-1. Epub 2015 Jan 24. PubMed PMID: 25616967; PubMed Central PMCID: PMC4368451.
- Zhou H, Jiang S, Chen J, Ren X, Jin J, Su SB. Largazole, an inhibitor of class I histone deacetylases, attenuates inflammatory corneal neovascularization. *Eur J Pharmacol*. 2014 Oct 5;740:619-26. doi: 10.1016/j.ejphar.2014.06.019. Epub 2014 Jun 26. PubMed PMID: 24973692.

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