

Lolitre B

Chemical Properties

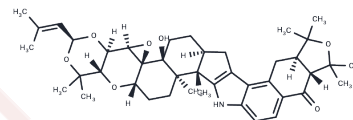
CAS No. : 81771-19-9

Formula: C42H55NO7

Molecular Weight: 685.902

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	Lolitre B is one of many toxins produced by a fungus called <i>Epichloë festucae</i> (var. <i>lolii</i>), which grows in perennial ryegrass. The fungus is symbiotic with the ryegrass; it doesn't harm the plant, and the toxins it produces kill insects that feed on ryegrass. Lolitre B is one of these toxins, but it is also harmful to mammals.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4579 mL	7.2897 mL	14.5794 mL
5 mM	0.2916 mL	1.4579 mL	2.9159 mL
10 mM	0.1458 mL	0.729 mL	1.4579 mL
50 mM	0.0292 mL	0.1458 mL	0.2916 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

Repussard C, Zbib N, Tardieu D, Guerre P. Ergovaline and lolitrem B concentrations in perennial ryegrass in field culture in southern France: distribution in the plant and impact of climatic factors. *J Agric Food Chem*. 2014 Dec 31; 62(52):12707-12. doi: 10.1021/jf504581y. Epub 2014 Dec 19. PubMed PMID: 25526521.

Johnstone LK, Mayhew IG. Flow-mediated K(+) secretion in horses intoxicated with lolitrem B (perennial ryegrass staggers). *N Z Vet J*. 2013 May;61(3):159-64. doi: 10.1080/00480169.2012.731682. Epub 2012 Nov 8. PubMed PMID: 23134178.

Shimada N, Yoshioka M, Mikami O, Tanimura N, Yamanaka N, Hanazumi M, Kojima F, Miyazaki S. Toxicological evaluation and bioaccumulation potential of lolitrem B, endophyte mycotoxin in Japanese black steers. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess*. 2013;30(8):1402-6. doi: 10.1080/19440049.2013.790090. Epub 2013 May 31. PubMed PMID: 23721156.

Johnstone LK, Mayhew IG, Fletcher LR. Clinical expression of lolitrem B (perennial ryegrass) intoxication in horses. *Equine Vet J*. 2012 May;44(3):304-9. doi: 10.1111/j.2042-3306.2011.00439.x. Epub 2011 Jul 27. PubMed PMID: 21793878.

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