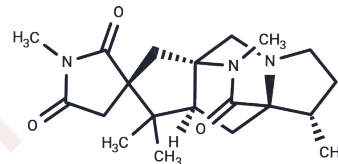


(rel)-Asperparaline A

Chemical Properties

CAS No. :	195966-93-9
Formula:	C ₂₀ H ₂₉ N ₃ O ₃
Molecular Weight:	359.47
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	Aspergillimide is a fungal metabolite originally isolated from <i>A. japonicus</i> . ¹ It reduces nicotinic acetylcholine receptor (nAChR) peak and slowly-desensitizing amplitudes induced by acetylcholine in silkworm (<i>B. mori</i>) larval neurons (IC ₅₀ s = 20.2 and 39.6 nM, respectively) but has no effect on chicken α 3 β 4-, α 4 β 2-, and α 7-containing nAChRs. ² Dietary administration of aspergillimide A (10 μ g/g of diet) induces paralysis in silkworm fourth instar larvae. ¹ Aspergillimide A (10 and 20 mg/kg) reduces <i>T. colubriformis</i> fecal egg count in gerbils. ³
Targets(IC50)	Others,AChR

Solubility Information

Solubility	Ethanol: Soluble DMSO: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7819 mL	13.9094 mL	27.8187 mL
5 mM	0.5564 mL	2.7819 mL	5.5637 mL
10 mM	0.2782 mL	1.3909 mL	2.7819 mL
50 mM	0.0556 mL	0.2782 mL	0.5564 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

Hayashi, H., Nishimoto, Y., Akiyama, K., et al. New paralytic alkaloids, asperparalines A, B and C, from *Aspergillus japonicus* JV-23. *Biosci. Biotechnol. Biochem.* 64(1), 111-115 (2000).

Hirata, K., Kataoka, S., Furutani, S., et al. A fungal metabolite asperparaline a strongly and selectively blocks insect nicotinic acetylcholine receptors: The first report on the mode of action. *PLoS One* 6(4), e18354 (2011).

Banks, R.M., Blanchflower, S.E., Everett, J.R., et al. Novel anthelmintic metabolites from an *Aspergillus* species; the aspergillimides. *J. Antibiot. (Tokyo)* 50(10), 840-846 (1997).

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