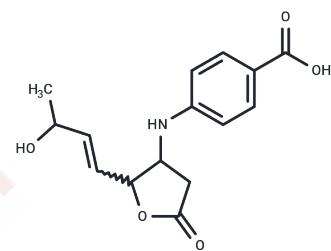


Obscurolide A1

Chemical Properties

CAS No. :	144397-99-9
Formula:	C ₁₅ H ₁₇ NO ₅
Molecular Weight:	291.3
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Obscurolide A1 is a butenolide isolated from <i>Streptomyces viridochromogenes</i> cultures that shows weak inhibitory activity against Ca ²⁺ /CaM-dependent and non-Ca ²⁺ /CaM-dependent phosphodiesterases in cattle.
Targets(IC ₅₀)	PDE
In vitro	Obscurolide A1 is a Phosphodiesterase (PDE) inhibitor with IC ₅₀ = 8 mM. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4329 mL	17.1644 mL	34.3289 mL
5 mM	0.6866 mL	3.4329 mL	6.8658 mL
10 mM	0.3433 mL	1.7164 mL	3.4329 mL
50 mM	0.0687 mL	0.3433 mL	0.6866 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

Hoff H, et al. Metabolic products of microorganisms. 26Obscurolides, a novel class of phosphodiesterase inhibitors from streptomyces. I. Production, isolation, structural elucidation and biological activity of obscurolides A1 to A4. J Antibiot (Tokyo). 1992 Jul;45(7):1096-107.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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