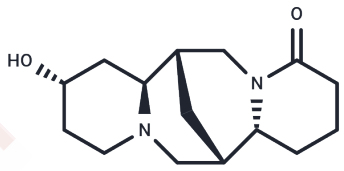
Data Sheet (Cat.No.TN6574)

TargetMol

13-Hydroxylupanine

Chemical Properties



CAS No. : 15358-48-2

Formula: C15H24N2O2

Molecular Weight: 264.36

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	13-Hydroxylupanine is a natural product from Cytisus scoparius.
Targets(IC50)	Others,Integrin
In vitro	The patterns of quinolizidine alkaloids in cell cultures of 10 species of Fabaceae were analyzed by high-resolution GLC and GLC-MS and compared with the alkaloids present in the leaves of the respective plants. METHODS AND RESULTS: Lupanine was produced in all 10 cell suspension cultures as the main alkaloid. It was accompanied by sparteine, tetrahydrorhombifoline, 17-oxosparteine, 13-Hydroxylupanine, 4-hydroxylupanine, 17-oxolupanine, and 13-Hydroxylupanine esters as minor alkaloids in some species. The alkaloid patterns of the plants differed markedly in that alpha-pyridone alkaloids were the major alkaloids in the genera Cytisus, Genista, Laburnum and Sophora but were not accumulated in the cell cultures. CONCLUSIONS:These data further support the assumption that the pathway leading to lupanine is the basic pathway of quinolizidine alkaloids biosynthesis and that the other alkaloids are derived from lupanine.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7827 mL	18.9136 mL	37.8272 mL
5 mM	0.7565 mL	3.7827 mL	7.5654 mL
10 mM	0.3783 mL	1.8914 mL	3.7827 mL
50 mM	0.0757 mL	0.3783 mL	0.7565 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

Accumulation of quinolizidine alkaloids in plants and cell suspension cultures: genera lupinus, cytisus, baptisia, genista, laburnum, and sophora. Planta Med. 1983 Aug;48(8):253-7.