Data Sheet (Cat.No.TN2204)

TargetMol
A DRUG SCREENING EXPERT

Seneciphylline N-oxide

Chemical Properties

CAS No.:	38710-26-8
Formula:	C18H23NO6
Molecular Weight:	349.4
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Seneciphylline N-oxide and senecionine N-oxide are probably tumorigenic due to their potential conversion into seneciphylline and senecionine via metabolic reduction in the body.
Targets(IC_{50})	others: None
In vitro	Root cultures of Senecio erucifolius (Asteraceae) efficiently took up and incorporated [14C]putrescine and [14C]arginine into the pyrrolizidine alkaloid (PA) senecionine N-oxide. Pulse-chase experiments covering a growth period of 10 to 19 days revealed the absence of any significant alkaloid turnover[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.862 mL	14.31 mL	28.62 mL
5 mM	0.572 mL	2.862 mL	5.724 mL
10 mM	0.286 mL	1.431 mL	2.862 mL
50 mM	0.057 mL	0.286 mL	0.572 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Site of synthesis, metabolism and translocation of senecionine N-oxide in cultured roots of Senecio erucifoliusPlant Cell, Tissue and Organ Culture, 1989,18(1):19-31.

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