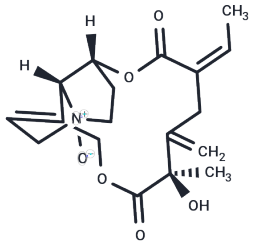
Data Sheet (Cat.No.TN2204)

TargetMol

Seneciphylline N-oxide

Chemical Properties



CAS No. : 38710-26-8

Formula: C18H23NO6

Molecular Weight: 349.38

Storage: Store at low temperature,Keep away from direct sunlight
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	Seneciphylline N-oxide is a pyrrolizidine alkaloid obtained from Emilia sonchifolia and is the dehydrogenation product of Senecionine N-oxide.
Targets(IC50)	Others
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]
In vivo	Seneciphylline was quickly absorbed into plasma (Tmax , 0.23-0.32 h) and reached the maximum concentration of 0.82-1.75 μg/mL after oral administration. Both seneciphylline and seneciphylline N-oxide were eliminated from plasma quickly. The low system exposure (oral bioavailability, 5.43-10.31%) was related to the extensive metabolism in the liver and microflora.[2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8622 mL	14.3111 mL	28.6221 mL
5 mM	0.5724 mL	2.8622 mL	5.7244 mL
10 mM	0.2862 mL	1.4311 mL	2.8622 mL
50 mM	0.0572 mL	0.2862 mL	0.5724 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

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.
Long F, et al. LC-MS/MS method for determination of seneciphylline and its metabolite, seneciphylline N-oxide in rat plasma, and its application to a rat pharmacokinetic study. Biomed Chromatogr. 2021 Sep;35(9):e5145.

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