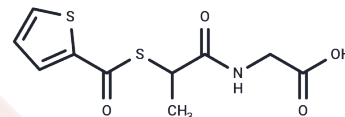


Stepronin

Chemical Properties

CAS No. :	72324-18-6
Formula:	C10H11NO4S2
Molecular Weight:	273.33
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	Stepronin (TTPG) shows expectorant activities and inhibits airway secretion.
Targets(IC50)	Others,Chloride channel
In vitro	In canine tracheal epithelium, Stepronin (0.1-100 μ M) dose-dependently reduces Isoproterenol-evoked short circuit current value, the basal secretion and Isoproterenol-evoked potential difference value[1]. In submucosal glands, Stepronin (100 μ M) causes the potent inhibition of Isoproterenol-induced [3H]-glycoconjugate secretion[3].

Solubility Information

Solubility	DMSO: 225 mg/mL (823.18 mM),Sonication is recommended. H2O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6586 mL	18.2929 mL	36.5858 mL
5 mM	0.7317 mL	3.6586 mL	7.3172 mL
10 mM	0.3659 mL	1.8293 mL	3.6586 mL
50 mM	0.0732 mL	0.3659 mL	0.7317 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

- de Giorgi L, Habeshaw JA, Broadhurst K, Carminati P, Oxford JS. Anti-human immunodeficiency virus activity of a new immunosuppressant drug called stepronin. *Transplant Proc.* 1999 Dec;31(8):3257. PubMed PMID: 10616467.
- Romano A, Di Fonso M, Mormile F, Quaratino D, Giuffreda F, Venuti A. Accelerated cell-mediated broncho-obstructive reaction to inhaled stepronin: a case report. *Allergy.* 1996 Apr;51(4):269-71. PubMed PMID: 8792926.
- Yamada K, et al. An expectorant, stepronin, reduces airway secretion in vitro. *Respiration.* 1994;61(1):42-7.
- de Giorgi L, Arrigoni-Martelli E, Matossian-Rogers A. Immunosuppressive effect of stepronin (TS-5010680) in mice. *Transplant Proc.* 1994 Dec;26(6):3513-6. PubMed PMID: 7998255.

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