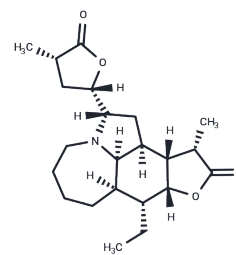


## Neotuberostemonine

## Chemical Properties

CAS No. :	143120-46-1
Formula:	C <sub>22</sub> H <sub>33</sub> N <sub>1</sub> O <sub>4</sub>
Molecular Weight:	375.5
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	Neotuberostemonine (NTS) is one of the main antitussive alkaloids in the root of <i>Stemona tuberosa</i> Lour, it has a significant protective effect on bleomycin (BLM)-induced pulmonary fibrosis through suppressing the recruitment and M2 polarization of macrophages. Neotuberostemonine demonstrates antitussive properties in guinea pigs.
Targets(IC50)	NOS,Antibacterial

## Solubility Information

Solubility	DMSO: 45 mg/mL (119.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6631 mL	13.3156 mL	26.6312 mL
5 mM	0.5326 mL	2.6631 mL	5.3262 mL
10 mM	0.2663 mL	1.3316 mL	2.6631 mL
50 mM	0.0533 mL	0.2663 mL	0.5326 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

- Xiang J , Cheng S , Feng T , et al. Neotuberostemonine attenuates bleomycin-induced pulmonary fibrosis by suppressing the recruitment and activation of macrophages[J]. *International Immunopharmacology*, 2016, 36:158-164.
- Gritsanapan W . TLC-image analysis of non-chromophoric tuberostemonine alkaloid derivatives in stemona species[J]. *Natural Product Communications*, 2013, 8(8):1065-1068.
- Xu Y T , Shaw P C , Jiang R W , et al. Antitussive and central respiratory depressant effects of *Stemona tuberosa*[J]. *Journal of Ethnopharmacology*, 2010, 128(3):0-684.

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