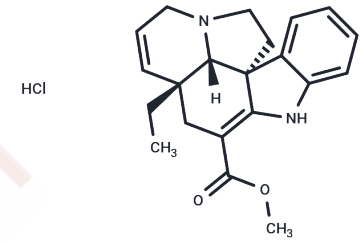
Data Sheet (Cat.No.T5810)

TargetMol

TABERSONINE HYDROCHLORIDE

Chemical Properties



CAS No. : 29479-00-3

Formula: C21H25ClN2O2

Molecular Weight: 372.89

Storage: 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	TABERSONINE HYDROCHLORIDE is a natural product extracted from the bean of Voacanga africana, is a potent inhibitor against Aβ(1 42) aggregation and toxicity.
Targets(IC50)	Apoptosis,Beta Amyloid,NF-κB,Akt,Caspase,NOD-like Receptor (NLR),CDK,Cytochromes P450,Interleukin,p38 MAPK,PI3K
In vivo	TABERSONINE HYDROCHLORIDE is an indole alkaloid mainly isolated from Catharanthus roseus, and a potential drug candidate for treatment of cancer and Alzheimer's disease (AD), however, its anti-inflammatory effect has not been revealed.TABERSONINE HYDROCHLORIDE ameliorated lipopolysaccharides (LPS)-induced ALI in vivo and inhibited LPS-mediated macrophage activation in vitro. By using murine ALI model, we found that TABERSONINE HYDROCHLORIDE significantly attenuated LPS-induced pathological injury in the lung. TABERSONINE HYDROCHLORIDE also inhibited LPS-mediated neutrophil infiltration, elevation of MPO activity and the production of TNF-α, IL-6 and IL-1β. Furthermore, TABERSONINE HYDROCHLORIDE inhibited LPS-induced the production of pro-inflammatory mediators such as iNOS, NO and cytokines by suppressing NF-κB and p38 MAPK/MK2 signaling cascades. TABERSONINE HYDROCHLORIDE HYDROCHLORIDE reduced the K63-linked polyubiquitination of TRAF6. Taken together,TABERSONINE HYDROCHLORIDE has anti-inflammatory activities in vitro and in vivo, and is a potential therapeutic candidate for the treatment of ALI/ARDS[1].

Solubility Information

Solubility	H2O: 3 mg/mL (8.05 mM),Sonication is recommended. DMSO: 50 mg/mL (134.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6818 mL	13.4088 mL	26.8176 mL
5 mM	0.5364 mL	2.6818 mL	5.3635 mL
10 mM	0.2682 mL	1.3409 mL	2.6818 mL
50 mM	0.0536 mL	0.2682 mL	0.5364 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

Zhang D , Li X , Hu Y , et al. Tabersonine attenuates lipopolysaccharide-induced acute lung injury via suppressing TRAF6 ubiquitination[J]. Biochemical Pharmacology, 2018:S0006295218301898.
Tabersonine Inhibits Amyloid Fibril Formation and Cytotoxicity of Aβ(1–42)[J]. ACS Chemical Neuroscience:-.