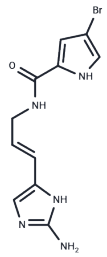
Data Sheet (Cat.No.T27564)

TargetMol

Hymenidin

Chemical Properties



CAS No. : 107019-95-4

Formula: C11H12BrN5O

Molecular Weight: 310.15

Storage: Store at low temperature,Keep away from direct sunlight,Keep away from moisture,Store under nitrogen
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	Hymenidin, an alkaloid isolated from the Okinawan sponge Hymeniacidon sp. is a 5-hydroxytryptaminergic receptor antagonist and voltage-gated potassium channel inhibitor with potential antiprotozoal effects.It selectively binds to FOXO1 DNA and reduces depolarization-induced elevation of cellular calcium.
Targets(IC50)	5-HT Receptor,Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2242 mL	16.1212 mL	32.2425 mL
5 mM	0.6448 mL	3.2242 mL	6.4485 mL
10 mM	0.3224 mL	1.6121 mL	3.2242 mL
50 mM	0.0645 mL	0.3224 mL	0.6448 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

Zidar N,et al. Clathrodin, hymenidin and oroidin, and their synthetic analogues as inhibitors of the voltage-gated potassium channels. Eur J Med Chem. 2017 Oct 20;139:232-241.
Rasapalli S, et al. Total syntheses of oroidin, hymenidin and clathrodin. Org Biomol Chem. 2013 Jul 7;11(25):4133-7.
Kobayashi J, et al. A novel antagonist of serotonergic receptors, hymenidin, isolated from the Okinawan marine sponge Hymeniacidon sp. Experientia. 1986 Oct 15;42(10):1176-7.
Nguyen LV, et al. Total Synthesis of (±)-Sceptrin. Org Lett. 2020 Sep 4;22(17):6698-6702.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481