

Men 10376

Chemical Properties

CAS No. : 135306-85-3

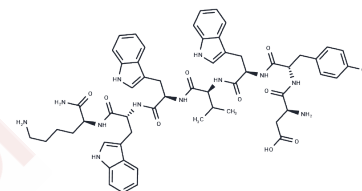
Formula: C57H68N12O10

Molecular Weight: 1081.22

Keep away from moisture

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	Men 10376 is a selective antagonist of tachykinin NK-2 receptor. It has a K_i of 4.4 μM for rat small intestine NK-2 receptor.
Targets(IC50)	CDK, Neurokinin receptor
In vitro	Men 10376 is a selective tachykinin NK-2 receptor (K_i : 4.4 μM) with no effect on NK-3 receptor (K_i , >10 μM) and low selectivity for NK-1 and NK-3 receptors (K_i , >10 μM) [1]. It exhibits pA2 values of 5.66 and 8.08 for NK-1 (guinea-pig ileum) and NK-2 receptors (endothelium-deprived rabbit pulmonary artery), respectively [2].
In vivo	Men 10376 (1 and 3 $\mu\text{mol/kg}$; in rats) antagonizes the increase in bladder motility induced by the NK-2 receptor agonist [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9249 mL	4.6244 mL	9.2488 mL
5 mM	0.185 mL	0.9249 mL	1.8498 mL
10 mM	0.0925 mL	0.4624 mL	0.9249 mL
50 mM	0.0185 mL	0.0925 mL	0.185 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

Quartara L, et al. N-terminal truncated analogs of men 10376 as tachykinin NK-2 receptor antagonists. Life Sci. 1992;51(25):1929-36.

Maggi CA, et al. In vivo evidence for tachykininergic transmission using a new NK-2 receptor-selective antagonist, MEN 10,376. J Pharmacol Exp Ther. 1991 Jun;257(3):1172-8.

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