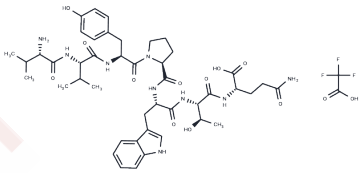
Data Sheet (Cat.No.T7666)

TargetMol

Valorphin TFA(144313-54-2(free base))

Chemical Properties



CAS No. :

Formula: C46H62F3N9O13

Molecular Weight: 1006.03

Storage: Keep away from moisture
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	Valorphin TFA(144313-54-2(free base)) is a semisynthetic derivative of dihydrovaltrate with opioid analgesic activity
Targets(IC50)	Others
In vitro	In vitro binding studies using brain homogenates from rat and guinea-pig indicate a preference for the mu-receptor site.?Bath application to cultured cerebellar Purkinje cells inhibited the spontaneous firing, similar to the effect seen with morphine.? Analgesic activity has been demonstrated in the hot plate and the tail flick test in the mouse and the Randall-Selitto test in the rat.?In the rhesus monkey valorphin was self-administered, but naloxone challenge induced only mild withdrawal signs.?Valorphin is a novel chemical entity, structurally not related to known opioids, which interacts preferentially with opiate mu-receptors[1].

Solubility Information

Solubility	DMSO: 10.07 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.994 mL	4.970 mL	9.9401 mL
5 mM	0.1988 mL	0.994 mL	1.988 mL
10 mM	0.0994 mL	0.497 mL	0.994 mL
50 mM	0.0199 mL	0.0994 mL	0.1988 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

Maurer R , R?Mer D , H.H. Büscher, et al. Valorphin: A novel chemical structure with opioid activity[J]. Neuropeptides, 1985, 5(4-6):387-390.

Smith W D . A COMPARISON IN MICE OF NALOXONE AND NALORPHINE AS ANTAGONISTS TO NEUROLEPTANALGESIC DRUGS[J]. BJA: British Journal of Anaesthesia(11):11.