Data Sheet (Cat.No.TP1891L1)

TargetMol

MMK 1 acetate

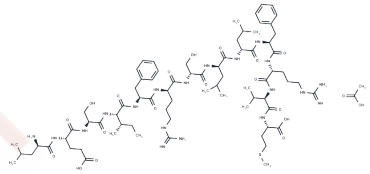
Chemical Properties

CAS No. :

Formula: C77H127N19O20S

Molecular Weight: 1671.01

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	MMK 1 acetate is an agonist of formyl peptide receptor 2 (FPR2), which was previously known as formyl peptide receptor-like 1 (FPRL1) [1].
Targets(IC50)	Others
In vitro	MMK1 induced calcium flux in CHO cells expressing human FPR2 and Gα16 (EC50 = 2 nM) but not in CHO cells expressing Gα16 alone or in combination with FPR1 (EC50s = >10,000 nM for both). It induced chemotaxis of isolated human peripheral blood monocytes and neutrophils in a concentration-dependent manner [2]. MMK1 (10 μM) increases production of the proinflammatory cytokines IL-1β and IL-6 in isolated human monocytes [3].
In vivo	Intracerebroventricular administration of MMK1 (100 pmol/mouse) increases the percentage of time spent in the open arms of the elevated plus maze in mice, indicating anxiolytic-like activity [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5984 mL	2.9922 mL	5.9844 mL
5 mM	0.1197 mL	0.5984 mL	1.1969 mL
10 mM	0.0598 mL	0.2992 mL	0.5984 mL
50 mM	0.012 mL	0.0598 mL	0.1197 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

C Klein, et al.Identification of surrogate agonists for the human FPRL-1 receptor by autocrine selection in yeastNat. Biotechnol.16(13)1334-1337(1998).

J Y Hu, et al. Synthetic peptide MMK-1 is a highly specific chemotactic agonist for leukocyte FPRL1J. Leukoc. Biol.70 (1)155-161(2001).

Hui Zhao, et al. Rubimetide, humanin, and MMK1 exert anxiolytic-like activities via the formyl peptide receptor 2 in mice followed by the successive activation of DP1, A2A, and GABAA receptors. Peptides. 2016 Sep;83:16-20.