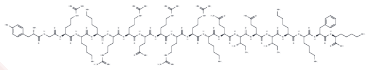
Data Sheet (Cat.No.TP2110)

TAT-Gap19

Chemical Properties



CAS No. : 1507930-54-2

Formula: C119H212N46O26

Molecular Weight: 2703.28

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	Cx43 hemichannel blocker (IC50 ~7 μM). No significant affinity for gap junctions or Panx1 channels. N-terminal transactivator of transcription (TAT) motif promotes membrane permeability and increases inhibitory effect of Gap19. Active in vivo. Brain penetrant.
Targets(IC50)	Gap Junction Protein

Solubility Information

Solubility	H2O: 1 mg/mL (0.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3699 mL	1.8496 mL	3.6992 mL
5 mM	0.074 mL	0.3699 mL	0.7398 mL
10 mM	0.037 mL	0.185 mL	0.3699 mL
50 mM	0.0074 mL	0.037 mL	0.074 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

Abudara et al (2014) The connexin43 mimetic peptide Gap19 inhibits hemichannels without altering gap junctional communication in astrocytes. Front.Cell.Neurosci. 8 1 PMID:

Freitas-Andrade and Naus (2016) Astrocytes in neuroprotection and neurodegeneration: The role of connexin43 and pannexin1. Neuroscience. 323 207 PMID:

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