Data Sheet (Cat.No.TP1744)

TAT 48-57

Chemical Properties

CAS No.:	253141-50-3
Formula:	C55H109N31O12
Molecular Weight:	1396.65
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	TAT (48-57) is a cell-permeable peptide, derived from HIV-1 transactivator of transcription (Tat) protein residue 48-57.This peptide is amino acid residues 48 to 57 fragment of the basic domain of HIV Tat.
In vitro	TAT (48-57) is a cell-permeable peptide with short length, good at crossing cell membranes of different cell types, with overall low toxicity, and does not leak out from cells once interlised[1].

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.716 mL	3.58 mL	7.16 mL
5 mM	0.143 mL	0.716 mL	1.432 mL
10 mM	0.072 mL	0.358 mL	0.716 mL
50 mM	0.014 mL	0.072 mL	0.143 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Cardozo AK, et al. Cell-permeable peptides induce dose- and length-dependent cytotoxic effects. Biochim Biophys Acta. 2007 Sep;1768(9):2222-34.

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