TAT (48-57)

Cat. No.: HY-P1575

CAS No.: 253141-50-3

Molecular Formula: $C_{55}H_{109}N_{31}O_{12}$

Molecular Weight: 1396.65

Sequence: Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg

Sequence Shortening: GRKKRRQRRR

Target: HIV

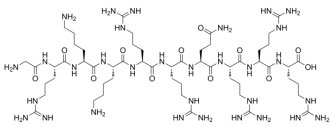
Pathway: Anti-infection

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (35.80 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7160 mL	3.5800 mL	7.1600 mL
	5 mM	0.1432 mL	0.7160 mL	1.4320 mL
	10 mM	0.0716 mL	0.3580 mL	0.7160 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (1.79 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (1.79 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (1.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description TAT (48-57) is a cell-permeable peptide, derived from HIV-1 transactivator of transcription (Tat) protein residue 48-57.

IC_{50} & Target HIV-1

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 internalised[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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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