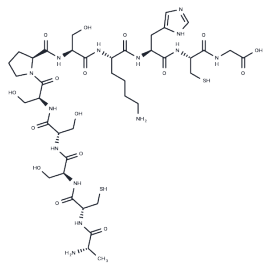
Data Sheet (Cat.No.T37766)

TargetMol

Transdermal Peptide (TD 1 (peptide))

Chemical Properties



CAS No. : 918629-48-8

Formula: C40H66N14O16S2

Molecular Weight: 1063.17

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	Transdermal Peptide is a 11-amino acid peptide, binds to Na+/K+-ATPase beta-subunit (ATP1B1), and enhances the transdermal delivery of many macromolecules.
Targets(IC50)	Others
In vitro	Transdermal Peptide (TD1) binds to ATP1B1, and mainly interacts with the C-terminus of ATP1B1 in yeast and mammalian cells. The interaction affects the expression and localization of ATP1B1 and epidermal structure, but can be antagonized by the exogenous competitor ATP1B1 or be inhibited by ouabain. Inhibition of Transdermal Peptide binding to ATP1B1 causes decreased delivery of macromolecular drugs across the skin[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	0.9406 mL	4.7029 mL	9.4058 mL
5 mM	0.1881 mL	0.9406 mL	1.8812 mL
10 mM	0.0941 mL	0.4703 mL	0.9406 mL
50 mM	0.0188 mL	0.0941 mL	0.1881 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

Wang C, et al. Role of the Na(+)/K(+)-ATPase beta-subunit in peptide-mediated transdermal drug delivery. Mol Pharm. 2015 Apr 6;12(4):1259-67.

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