

Transdermal Peptide Disulfide TFA

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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 Disulfide TFA (TD 1 Disulfide(peptide) TFA), an 11-amino acid peptide, specifically binds to the Na ⁺ /K ⁺ -ATPase beta-subunit (ATP1B1), primarily interacting with its C-terminus, and enhances the transdermal delivery of various macromolecules[1].
Targets(IC50)	ATPase
In vitro	Upon exposure to Transdermal Peptide Disulfide, cells increase ATP1B1 expression to preserve functionality and structure due to the compound's affinity for ATP1B1. Over time, however, internalization of Transdermal Peptide Disulfide through endocytosis leads to a decline in ATP1B1 levels. This dynamic not merely affects ATP1B1 expression but also its positioning and subsequently the architecture of the epidermal layer. The process is modifiable by inhibitors or competitors which, in turn, diminish the transdermal transport of macromolecular drugs[1].

Solubility Information

Solubility	H2O: 100 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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