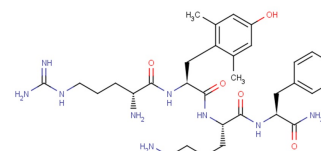


Data Sheet (Cat.No.TP1095)

Elamipretide

Chemical Properties

CAS No.:	736992-21-5
Formula:	C32H49N9O5
Molecular Weight:	639.79
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Elamipretide (SS-31,MTP-131,Bendavia) is a small mitochondrially-targeted tetrapeptide (D-Arg-dimethylTyr-Lys-Phe-NH ₂) that appears to reduce the production of toxic reactive oxygen species and stabilize cardiolipin.
Targets(IC ₅₀)	Cardiolipin peroxidase: None

Solubility Information

Solubility	DMSO: 29 mg/mL (45.33 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.563 mL	7.815 mL	15.63 mL
5 mM	0.313 mL	1.563 mL	3.126 mL
10 mM	0.156 mL	0.782 mL	1.563 mL
50 mM	0.031 mL	0.156 mL	0.313 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Sabbah HN et al. Chronic Therapy With Elamipretide (MTP-131), a Novel Mitochondria-Targeting Peptide, Improves Left Ventricular and Mitochondrial Function in Dogs With Advanced Heart Failure. *Circ Heart Fail.* 2016 Feb;9(2):e002206.

Inhibitors · Natural Compounds · Compound Libraries

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