
Product Data Sheet

Product Name: TAT-DEF-Elk-1

Cat. No.: GC69994

Chemical Properties

Cas. No. 1220751-16-5

Formula C₁₅₅H₂₅₉N₅₇O₄₀

M.Wt 3561.07

Solubility H₂O : 5 mg/mL (1.40 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**IC₅₀: Elk-1^[1]

TAT-DEF-Elk-1 (TDE) is a cell-penetrating peptide inhibitor of **Elk-1**, mimics and specifically interferes with the DEF domain of Elk-1. TAT-DEF-Elk-1 blocks Elk-1 phosphorylation and prevents Elk-1 nuclear translocation without interfering with Reversed social-defeat induced decrease of hippocampal Bdnf expression by repeated TDE administration.

[1]. Lavaur J, et al. A TAT-DEF-Elk-1 peptide regulates the cytonuclear trafficking of Elk-1 and controls cytoskeleton dynamics. J Neurosci. 2007 Dec 26;27(52):14448-58.

Caution: Product has not been fully validated for medical applications. For research use only.

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