

Product Data Sheet

Product Name: TAT acetate

Cat. No.: GC78894

Chemical Properties

Cas. No.

Formula $C_{64}H_{118}N_{32}O_{14} \cdot xC_2HF_3O_2$ M.Wt 1559.83

Solubility H_2O : 100 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

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

TAT (TAT(47-57)) acetate is derived from the transactivator of transcription (TAT) of human immunodeficiency virus-1 (HIV-1) and is a cell-penetrating peptide. TAT acetate can increase the

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

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yields and the solubility of heterologous proteins [1].

In Vitro, TAT (YGRKKRRQRRR) acetate represents amino acids 47-57 of the human immunodeficiency virus type I (HIV-1) TAT protein. The positively charged protein transduction domain of the HIV-1 TAT protein (TAT-PTD; residues 47-57 of TAT) rapidly translocates across the plasma membrane of living cells. TAT acetate can cross the hydrophobic lipid bilayer of a cell membrane simply by passive diffusion^[1].

References:

[1]. Ziegler A, et al. Interaction of the protein transduction domain of HIV-1 TAT with heparan sulfate: binding mechanism and thermodynamic parameters. Biophys J. 2004 Jan;86(1 Pt 1):254-63.

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