

Product Data Sheet

Product Name: TAT-Epsilon-V1-2 TFA

Cat. No.: GC79187

Chemical Properties

Cas. No.

Formula $C_{101}H_{181}N_{41}O_{26} \cdot xC_2HF_3O_2$ M.Wt 2385.78

Solubility DMSO: 100 mg/mL (Need ultrasonic) Storage -20°C, 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-Epsilon-V1-2 TFA is a cell-permeable PKCε peptide inhibitor. TAT-Epsilon-V1-2 TFA reduces chronic immune responses after heart transplantation. TAT-Epsilon-V1-2 TFA is applicable to research related to delayed graft function and acute kidney injury caused by renal ischemia-reperfusion injury [1] [2].

In Vitro, TAT-Epsilon-V1-2 TFA links the PKCε inhibitory peptide sequence (εV1-2) to the TAT protein transduction domain, which facilitates the molecule's penetration through cell membranes.

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

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References:

- [1]. Marrocco V, et al. PKC and PKN in heart disease. Journal of molecular and cellular cardiology. 2019 Mar;128:212-226.
- [2]. Sleeper S, et al. Myristoylated Protein Kinase C Epsilon Inhibitor Preserves Renal Function in a Mouse Model of Acute Bilateral Kidney Ischemia-Reperfusion Injury.

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