

DfTat

| | | |
|-----------------------------|--|--|
| Cat. No.: | HY-P3432 | |
| CAS No.: | 2035480-78-3 | |
| Molecular Formula: | $C_{178}H_{292}N_{74}O_{34}S_2$ | Chain 1:Cys-{Lys(5-TAMRA)}-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Gly-NH ₂ |
| Molecular Weight: | 4076.83 | Chain 2:Cys-{Lys(5-TAMRA)}-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Gly-NH ₂ |
| Sequence: | Chain 1:Cys-{Lys(5-TAMRA)}-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Gly-NH ₂ ; Chain 2:Cys-Lys{(5-TAMRA)}-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Gly-NH ₂ (disulfide bridge: chain 1 Cys-1 to chain 2 Cys-1) | (disulfide bridge: chain 1 Cys-1 to chain 2 Cys-1) |
| Sequence Shortening: | Chain 1∅C-{Lys(5-TAMRA)}-RKKRRQRRRG-NH ₂ ;Chain 2∅C-{Lys(5-TAMRA)}-RKKRRQRRRG-NH ₂ (disulfide bridge∅chain 1 cys-1 to chain 2 cys-1) | |
| Target: | Others | |
| Pathway: | Others | |
| Storage: | Sealed storage, away from moisture and light, under nitrogen | |
| | Powder -80°C 2 years | |
| | -20°C 1 year | |
| | * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen) | |

SOLVENT & SOLUBILITY

In Vitro

H₂O : 10 mg/mL (2.45 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|--------------------------|-----------|-----------|-----------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 0.2453 mL | 1.2264 mL | 2.4529 mL |
| | 5 mM | --- | --- | --- |
| | 10 mM | --- | --- | --- |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DfTat is a dimer of the prototypical cell-penetrating peptide TAT. DfTat can deliver small molecules, peptides and proteins into live cells with a particularly high efficiency. DfTat labeled with the rhodamine can be used as a tracer for easy detection [1].

REFERENCES

[1]. Najjar K, et al. Delivery of Proteins, Peptides or Cell-impermeable Small Molecules into Live Cells by Incubation with the Endosomolytic Reagent dFTAT. J Vis Exp. 2015

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA