

Product Data Sheet

Product Name: Tat-IKIP (46-60) TFA

Cat. No.: GC79811

Chemical Properties

Cas. No.

Formula $C_{145}H_{246}N_{48}O_{31}S \cdot xC_2HF_3O_2$ M.Wt 3189.87

Solubility DMSO: 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

Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-
Arg-Arg-Leu-Leu-Ser-Leu-Ala-Met-Thr-
Leu-Gly-Leu-Ala-Trp-Leu-Val-Phe (TFA
salt)

Background

Tat-IKIP (46-60) TFA is the trifluoroacetic acid of Tat-IKIP (46-60). Tat-IKIP (46-60) is a IκB kinase (IKK) -targeting membrane-penetrating peptide. Tat-IKIP (46-60) inhibits IKK activation and NF-κB targeted gene expression by disrupting the IKKβ/NEMO complex. Tat-IKIP (46-60) significantly reduces DSS-induced acute inflammation in inflammatory bowel disease (IBD) mice model and attenuates Zymosan-induced acute arthritis in acute arthritis model (AAM). Tat-IKIP (46-60) can be

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used for inflammatory diseases research, such as IBD, pancreatitis and rheumatoid arthritis [1] [2].

References:

[1]. Liu H, et al. A Peptide Derived from IKK-Interacting Protein Attenuates NF- κ B Activation and Inflammation. J Immunol. 2021 Sep 15;207(6):1652-1661.

[2]. Gao, C.J, et al. IKK beta-targeting short peptides and application thereof in inflammatory diseases. 2020-11-24.

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