

Product Data Sheet

Product Name: Wasabi Receptor Toxin TFA

Cat. No.: GC74418

Chemical Properties

Cas. No.

Formula $C_{164}H_{245}N_{45}O_{53}S_5 \cdot xC_2HF_3O_2$ M.Wt 3855.29 (free base)

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

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.

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

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Structure

Ala-Ser-Pro-Gln-Gln-Ala-Lys-Tyr-Cys-
Tyr-Glu-Gln-Cys-Asn-Val-Asn-Lys-Val-
Pro-Phe-Asp-Gln-Cys-Tyr-Gln-Met-Cys-
Ser-Pro-Leu-Glu-Arg-Ser (Disulfide
bridge: Cys9-Cys27; Cys13-Cys23)
(TFA salt)

Background

Wasabi Receptor Toxin TFA (WaTx TFA) is the TFA salt form of Wasabi Receptor Toxin . Wasabi Receptor Toxin TFA is a cell-penetrating scorpion toxin. Wasabi Receptor Toxin TFA is the activator for TRPA1 ion channel with EC50 in nanomolar level, and prolongs the channel open time, but reduces Ca²⁺ permeability. Wasabi Receptor Toxin TFA causes thermal persensitivity and mechanical allodynia in rats, without triggering neurogenic inflammation.

References:

[1]. John V Lin King, et al. A Cell-Penetrating Scorpion Toxin Enables Mode-Specific Modulation of TRPA1 and Pain. Cell. 2019, 178,6.

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