

Product Data Sheet

Product Name: WaTx (36-68) (scorpion) (trifluoroacetate salt)

Cat. No.: GC91865

Chemical Properties

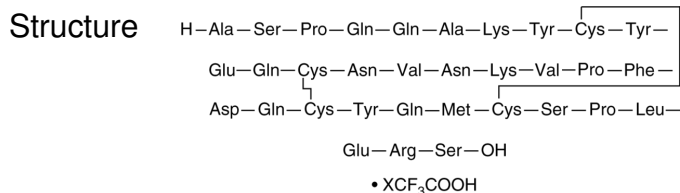
Cas. No. N/A

Formula $C_{164}H_{245}N_{45}O_{53}S_5 \cdot XCF_3COOH$ M.Wt 3855.3

Solubility Water: Soluble Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.



Background

Wasabi receptor toxin (WaTx) (36-68) is a cell-penetrating peptide that corresponds to the mature toxin sequence and is an activator of transient receptor potential ankyrin 1 (TRPA1).^[1] It selectively induces currents in HEK293T cells expressing human TRPA1 ($EC_{50} = 15$ nM) over cells expressing human TRP melastatin 8 (TRPM8) or human TRP vanilloid 1 (TRPV1) at 100 nM or rat voltage-gated potassium channel 1.2 ($K_v1.2$), rat $K_v2.1$, rat $K_v3.1$, or rat $K_v4.3$ at 1,000 nM. WaTx induces nocifensive behavior in wild-type but not *Trpa1*^{-/-} mice.

References:

[1]. King, J.V.L., Emrick, J.J., Kelly, M.J.S., et al. A cell-penetrating scorpion toxin enables mode-specific modulation of TRPA1 and pain. *Cell* 178(6):1362-1374 (2019).

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

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