

Product Data Sheet

Product Name: Imperatoxin A TFA

Cat. No.: GC74350

Chemical Properties

Cas. No.

Formula $C_{148}H_{254}N_{58}O_{45}S_6 \cdot xC_2HF_3O_2$ M.Wt 3758.35 (free base)

Solubility H_2O : ≥ 100 mg/mL 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

Gly-Asp-Cys-Leu-Pro-His-Leu-Lys-Arg-
Cys-Lys-Ala-Asp-Asn-Asp-Cys-Cys-Gly-
Lys-Lys-Cys-Lys-Arg-Arg-Gly-Thr-Asn-
Ala-Glu-Lys-Arg-Cys-Arg (Disulfide
bridge:Cys3-Cys17;Cys10-Cys21;Cys16-
Cys32) (TFA salt)

Background

Imperatoxin A TFA is a peptide toxin derived from the venom of the African scorpion *Pandinus imperator*. Imperatoxin A TFA is a Ca^{2+} -release channels/ryanodine receptors (RyRs) activator. Imperatoxin A TFA enhances the influx of Ca^{2+} from the sarcoplasmic reticulum into the cell.

References:

[1]. Georgina B Gurrola, et al. Imperatoxin A, a Cell-Penetrating Peptide from Scorpion Venom, as a

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

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Probe of Ca²⁺-Release Channels/Ryanodine Receptors. Pharmaceuticals (Basel). 2010 Apr 1;3(4):1093-1107.

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