

GsAF-1

Product name : GsAF-1	Synonyms :
Catalog # : 12GSF001	
Product description <p>GsAF-I (also termed β-theraphotoxin-Gr1b, GsAF-1) was originally isolated from the venom of <i>Grammostola rosea</i> spider. GsAF-I peptide toxin is reported to block the following voltage-gated sodium channel isoforms: Na_v1.1, Na_v1.2, Na_v1.3, Na_v1.4, Na_v1.6 and Na_v1.7 with respective IC₅₀ values of 0.4, 0.6, 1.3, 0.3, 1.2 and 0.04 μM. In addition, the toxin blocks the hERG1 isoform with an IC₅₀ value of 4.8 μM.</p>	
Product specifications <p>AA sequence: YC²QKWLWTC⁹DSERKC¹⁵C¹⁶EDMVC²¹RLWC²⁵KKRL-NH₂ Disulfide bonds: Cys²-Cys¹⁶, Cys⁹-Cys²¹, and Cys¹⁵-Cys²⁵ Length (aa): 29 Formula: C₁₆₀H₂₄₅N₄₇O₄₁S₇ Molecular Weight: 3707.48 Da Appearance: White lyophilized solid Solubility: aqueous buffer, recommended maximal concentration: 2mg/mL CAS number: not available Source: Synthetic Counterion: TFA salts</p>	
Formulation <p>Storage/Stability: Shipped at ambient temperature under lyophilized powder. Store at -20°C (-4°F). Do not freeze-thaw. Aliquot sample if required and store at -80°C (-112°F). Expiry date: One year Use restrictions: For laboratory use only. Not for drug, household or other uses. Not for use in diagnostic or therapeutic procedures.</p>	
Related products <ul style="list-style-type: none"> • ProTx-II - #07PTX002: Na_v1.7 selective inhibitor • Biotinyl-ProTx-II - #12PTB002: Na_v1.7 selective inhibitor • Huwentoxin I - #07HWT001: N-type Ca²⁺ channel and TTX-S inhibitor • Huwentoxin-IV - #08HWT002: Na_v1.7, Na_v1.2 and Na_v1.3 potent blocker • Hainantoxin IV - #12HTX001: selective blocker of TTX-S channels • Jingzhaotoxin III - #12JZH003: selective blocker of Na_v1.5 channel • GsAF-II - #12GSF002: voltage-gated sodium channel inhibitor • Phrixotoxin-3 - #13PHX003: Na_v1.2 selective blocker • μ-conotoxin PIIIA - #08CON006: Na_v1.2, Na_v1.4 and Na_v1.7 blocker 	
References <ul style="list-style-type: none"> • Redaelli E., <i>et al.</i> (2010) Target Promiscuity and Heterogeneous Effects of Tarantula Venom Peptides Affecting Na⁺ and K⁺ Ion Channels. <i>JBC</i> 	

For laboratory research use only