

GsAF-II

Product name: GsAF-II	Synonyms :
Catalog # : 12GSF002	
Product description	
<p>GsAF-II (also termed Kappa-theraphotoxin-Gr2c, GsAF-2) was originally isolated from the venom of <i>Grammostola rosea</i> spider. GsAF-II peptide toxin has antinociceptive and antiarrhythmic effects in mammals. The peptide is reported to block the following voltage-gated sodium channels: Na_v1.1, Na_v1.2, Na_v1.3, Na_v1.4, Na_v1.6 and Na_v1.7 with IC₅₀ values of, respectively, 5.7, 12, 24, 4, 6.6 and 1.3 μM. This peptide also blocks hERG1 with an IC₅₀ value of 4.7 μM.</p>	
Product specifications	
<p>AA sequence: YC²QKWMWTC⁹DEERKC¹⁵C¹⁶EGLVC²¹RLWC²⁵KKKIEW-OH Disulfide bonds: Cys²-Cys¹⁶, Cys⁹-Cys²¹, and Cys¹⁵-Cys²⁵ Length (aa): 31 Formula: C₁₇₆H₂₆₁N₄₇O₄₅S₇ Appearance: White lyophilized solid Molecular Weight: 3979.78 Da CAS number: NA Source: Synthetic Counterion: TFA salts Solubility: Water or saline buffer, 5 mg/mL maximum (recommendation)</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-I - #12GSF001: 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., et al. (2010) Target Promiscuity and Heterogeneous Effects of Tarantula Venom Peptides Affecting Na⁺ and K⁺ Ion Channels. <i>JBC</i> 	

For laboratory research use only