

## Heteropodatoxin-2 TFA

<b>Cat. No.:</b>	HY-P5785A	
<b>Molecular Formula:</b>	$C_{144}H_{207}N_{39}O_{46} \cdot xC_2HF_3O_2$	
<b>Sequence:</b>	Asp-Asp-Cys-Gly-Lys-Leu-Phe-Ser-Gly-Cys-Asp-Thr-Asn-Ala-Asp-Cys-Cys-Glu-Gly-Tyr-V al-Cys-Arg-Leu-Trp-Cys-Lys-Leu-Asp-Trp-NH2 (Disulfide bridge:Cys3-Cys17;Cys10-Cys 22;Cys16-Cys26)	DDCGKLFSGCDTNADCCGYVCRWLWCKLDW-NH <sub>2</sub> (TFA salt) (Disulfide bridge:Cys <sub>3</sub> -Cys <sub>17</sub> ;Cys <sub>10</sub> -Cys <sub>22</sub> ;Cys <sub>16</sub> -Cys <sub>26</sub> )
<b>Sequence Shortening:</b>	DDCGKLFSGCDTNADCCGYVCRWLWCKLDW-NH2 (Disulfide bridge:Cys3-Cys17;Cys10-Cy s22;Cys16-Cys26)	
<b>Target:</b>	Potassium Channel	
<b>Pathway:</b>	Membrane Transporter/Ion Channel	
<b>Storage:</b>	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : ≥ 50 mg/mL * "≥" means soluble, but saturation unknown.
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### BIOLOGICAL ACTIVITY

<b>Description</b>	Heteropodatoxin-2 (TFA), a peptides of 30-amino acid, is a heteropodatoxin. Heteropodatoxin-2 blocks Kv4.2 current expressed in <i>Xenopus laevis</i> oocytes in a voltage-dependent manner, with less block at more positive potentials <sup>[1]</sup> .
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### REFERENCES

[1]. M C Sanguinetti, et al. Heteropodatoxins: peptides isolated from spider venom that block Kv4.2 potassium channels. *Mol Pharmacol.* 1997 Mar;51(3):491-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA