D-GsMTx4 TFA

Cat. No.:	HY-P1410C
Molecular Formula:	$C_{185}H_{273}N_{49}O_{45}S_6.xC_2HF_3O_2$
Sequence:	d-(Gly-Cys-Leu-Glu-Phe-Trp-Trp-Lys-Cys-Asn-Pro-Asn-Asp-Asp-Lys-Cys-Cys-Arg-Pro-Lys-Leu-Lys-Cys-Ser-Lys-Leu-Phe-Lys-Leu-Cys-Asn-Phe-Ser-Phe)-NH2 (Disulfide bridge :Cys2-Cys17, Cys9-Cys23, Cys16-Cys30)
Sequence Shortening:	d-(GCLEFWWKCNPNDDKCCRPKLKCSKLFKLCNFSF)-NH2 (Disulfide bridge:Cys2-Cys17, Cys9-Cys23, Cys16-Cys30)
Target:	Piezo Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	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)

d-(Gly-Cys-Leu-Glu-Phe-Trp-Trp-Lys-Cys-Asn-Pro-Asn-Asp-Asp-Lys-Cys-Cys-Arg-Pro-Lys-Leu-Lys-Cys-Ser-Lys-Leu-Phe-Lys-Leu-Cys-Asn-Phe-Ser-Phe)-NH_2 (Disulfide bridge:Cys_2-Cys_{17}, Cys_9-Cys_{23}, Cys_{16}-Cys_{30}) (TFA salt)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description	D-GsMTx4 TFA, a spider peptide, is the D-enantiomer of GsMTx4 (HY-P1410). D-GsMTx4 TFA inhibits the mechanosensitive ion channel Piezo2. D-GsMTx4 TFA can be used for research of mechanical stress[1].

REFERENCES

[1]. Alcaino C, et al. Mechanosensitive ion channel Piezo2 is inhibited by D-GsMTx4. Channels (Austin). 2017 May 4;11(3):245-253. doi: 10.1080/19336950.2017.1279370. Epub 2017 Jan 13. Erratum for: Addendum to: Wang F, Knutson K, Alcaino C, Linden DR, Gibbons SJ, Kashyap PK, Grover M, Oeckler R, Gottlieb PA, Li HJ, et al. Mechanosensitive ion channel Piezo2 is important for enterochromaffin cell response to mechanical forces. J Physiol. 2017; 595(1):79-91.

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