

D-GsMTx4

Cat. No.:	HY-P1410B
Molecular Formula:	C ₁₈₅ H ₂₇₃ N ₄₉ O ₄₅ S ₆
Molecular Weight:	4095.84
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)-NH ₂ (Disulfide bridge :Cys2-Cys17, Cys9-Cys23, Cys16-Cys30)
Sequence Shortening:	d-(GCLEFWWKCNPNDDKCCRPKLKCSKLFKLCNFSF)-NH ₂ (Disulfide bridge:Cys2-Cys17, Cys9-Cys23, Cys16-Cys30)
Target:	Piezo Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

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

REFERENCES

[1]. Alcaïno C, Knutson K, Gottlieb PA, Farrugia G, Beyder A. 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, Alcaïno 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

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

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