

mHuwentoxin-IV

Cat. No.:	HY-P5868
Molecular Formula:	C ₁₇₄ H ₂₇₆ N ₅₂ O ₅₀ S ₆
Molecular Weight:	4088.76
Sequence:	{Pyr}-Cys-Leu-Glu-Ile-Phe-Lys-Ala-Cys-Asn-Pro-Ser-Asn-Asp-Gln-Cys-Cys-Lys-Ser-Ser-Lys-Leu-Val-Cys-Ser-Arg-Lys-Thr-Arg-Trp-Cys-Lys-Tyr-Gln-Ile-NH ₂ (Disulfide bridge: Cys2-Cys17,Cys9-Cys24,Cys16-Cys31)
Sequence Shortening:	{Pyr}-CLEIFKACNPSNDQCCKSSKLVCSRKTRWCKYQI-NH ₂ (Disulfide bridge: Cys2-Cys17,Cys9-Cys24,Cys16-Cys31)
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	mHuwentoxin-IV is a naturally modified Huwentoxin-IV (HY-P1220). mHuwentoxin-IV inhibits tetrodotoxin-sensitive (TTX-S) voltage-gated sodium channels of dorsal root ganglion neurons with an IC ₅₀ of 54.16 nM. mHuwentoxin-IV inhibition of tetrodotoxin-sensitive sodium channels is not reversed by strong depolarization voltages ^[1] .
IC₅₀ & Target	IC ₅₀ : 54.16 nM (tetrodotoxin-sensitive sodium channel) ^[1]

REFERENCES

[1]. Rong M, et al. Native pyroglutamation of huwentoxin-IV: a post-translational modification that increases the trapping ability to the sodium channel. PLoS One. 2013 Jun 24;8(6):e65984.

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

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