

ω-Conotoxin Bu8

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| Cat. No.: | HY-P5820 |
| Molecular Formula: | C ₁₀₃ H ₁₇₄ N ₄₂ O ₃₅ S ₆ |
| Molecular Weight: | 2753.13 |
| Sequence: | Cys-Lys-Arg-Lys-Gly-Ser-Ser-Cys-Arg-Arg-Thr-Ser-Tyr-Asp-Cys-Cys-Thr-Gly-Ser-Cys-Arg-Asn-Gly-Lys-Cys-NH ₂ (Disulfide bridge: Cys1-Cys16,Cys8-Cys20,Cys15-Cys25) |
| Sequence Shortening: | CKRKGSSCRRTSYDCCTGSCRNGKC-NH ₂ (Disulfide bridge: Cys1-Cys16,Cys8-Cys20,Cys15-Cys25) |
| Target: | Calcium Channel |
| Pathway: | Membrane Transporter/Ion Channel; Neuronal Signaling |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | ω-Conotoxin Bu8 is a ω-conotoxin, which consists of 25 amino acid residues and three disulfide bridges. ω-Conotoxin Bu8 selectively and potently inhibits depolarization-activated Ba ₂₊ currents mediated by rat CaV2.2 expressed in HEK293T cells (IC ₅₀ = 89 nM) ^[1] . |
| IC ₅₀ & Target | Ca _v 2.2 89 nM (IC ₅₀) |

REFERENCES

[1]. Jinqin Chen, et al. A novel ω-conotoxin Bu8 inhibiting N-type voltage-gated calcium channels displays potent analgesic activity. Acta Pharm Sin B. 2021 Sep;11(9):2685-2693.

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

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