

β-CGRP, human

Cat. No.:	HY-P1548
CAS No.:	101462-82-2
Molecular Formula:	C ₁₆₂ H ₂₆₇ N ₅₁ O ₄₈ S ₃
Molecular Weight:	3793.41
Sequence:	Ala-Cys-Asn-Thr-Ala-Thr-Cys-Val-Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-Gly-Met-Val-Lys-Ser-Asn-Phe-Val-Pro-Thr-Asn-Val-Gly-Ser-Lys-Ala-Phe-NH ₂ (Disulfide bridge: Cys2-Cys7)
Sequence Shortening:	ACNTATCVTHRLAGLLSRSGGMVKS NFVPTNVGSKAF-NH ₂ (Disulfide bridge: Cys2-Cys7)
Target:	CGRP Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	β-CGRP, human (Human β-CGRP) is one of calcitonin peptides, acts via the complex of calcitonin-receptor-like receptor (CRLR) and receptor-activity-modifying protein (RAMP), with IC ₅₀ s of 1 nM and 300 nM for CRLR/RAMP1 and CRLR/RAMP2 in cells ^[1] .
IC ₅₀ & Target	IC ₅₀ : 1 nM (CRLR/RAMP1, cell assay), 300 nM (CRLR/RAMP2, cell assay) ^[1]
In Vitro	β-CGRP, human is one of calcitonin peptides, acts via complex of calcitonin-receptor-like receptor (CRLR) and receptor-activity-modifying protein (RAMP), with IC ₅₀ s of 1 nM in both SK-N-MC and Swiss 3T3 cells express CRLR and RAMP1, and 130 nM and 300 nM in NG108-15 and HEK293T cells expressing CRLR and RAMP2 ^[1] . CGRP is a potent vasodilator and also shows pro- and -anti-inflammatory activity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. McLatchie LM, et al. RAMPs regulate the transport and ligand specificity of the calcitonin-receptor-like receptor. *Nature*. 1998 May 28;393(6683):333-9.
- [2]. Russell FA, et al. Calcitonin gene-related peptide: physiology and pathophysiology. *Physiol Rev*. 2014 Oct;94(4):1099-142.

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

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