

β-CGRP, human TFA

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| Cat. No.: | HY-P1548A |
| Molecular Formula: | C ₁₆₄ H ₂₆₈ F ₃ N ₅₁ O ₅₀ S ₃ |
| Molecular Weight: | 3907.38 |
| 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) (TFA salt) |
| Sequence Shortening: | ACNTATCVTHRLAGLLSRSGGMVKS NFVPTNVGSKAF-NH ₂ (Disulfide bridge: Cys2-Cys7) |
| Target: | CGRP Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Storage: | Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |

SOLVENT & SOLUBILITY

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|---|---|--|-----------|-----------|-----------|
| In Vitro | H ₂ O : 25 mg/mL (6.40 mM; Need ultrasonic) | | | | |
| | Preparing Stock Solutions | <div>Solvent Concentration</div> <div>Mass</div> | 1 mg | 5 mg | 10 mg |
| | | 1 mM | 0.2559 mL | 1.2796 mL | 2.5593 mL |
| | | 5 mM | 0.0512 mL | 0.2559 mL | 0.5119 mL |
| | | 10 mM | --- | --- | --- |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: PBS Solubility: 50 mg/mL (12.80 mM); Clear solution; Need ultrasonic | | | | |

BIOLOGICAL ACTIVITY

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|---------------------------|--|
| Description | β-CGRP, human TFA (Human β-CGRP TFA) 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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