

## β-CGRP, human TFA

<b>Cat. No.:</b>	HY-P1548A												
<b>Molecular Formula:</b>	C <sub>164</sub> H <sub>268</sub> F <sub>3</sub> N <sub>51</sub> O <sub>50</sub> S <sub>3</sub>												
<b>Molecular Weight:</b>	3907.38												
<b>Sequence:</b>	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 <sub>2</sub> (Disulfide bridge: Cys2-Cys7) (TFA salt)												
<b>Sequence Shortening:</b>	ACNTATCVTHRLAGLLSRSGGMVKSNTFVPTNVGSKAF-NH <sub>2</sub> (Disulfide bridge: Cys2-Cys7)												
<b>Target:</b>	CGRP Receptor												
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-80°C	2 years		-20°C	1 year	In solvent	-80°C	6 months		-20°C	1 month
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### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 50 mg/mL (12.80 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.2559 mL	1.2796 mL	2.5593 mL
	5 mM	0.0512 mL	0.2559 mL	0.5119 mL
	10 mM	0.0256 mL	0.1280 mL	0.2559 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sub>50</sub> s of 1 nM and 300 nM for CRLR/RAMP1 and CRLR/RAMP2 in cells <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 1 nM (CRLR/RAMP1, cell assay), 300 nM (CRLR/RAMP2, cell assay) <sup>[1]</sup>
<b>In Vitro</b>	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 <sub>50</sub> 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 <sup>[1]</sup> . CGRP is a potent vasodilator and also shows pro- and -anti-inflammatory activity <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## 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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