

Data Sheet

Product Name:	β-CGRP, human (TFA)
Cat. No.:	CS-0087199
Molecular Formula:	C164H268F3N51O50S3
Molecular Weight:	3907.38
Target:	CGRP Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	H2O : ≥ 50 mg/mL (12.80 mM)



BIOLOGICAL ACTIVITY:

β-CGRP, human TFA is one of calcitonin peptides, acts via the complex of calcitonin-receptor-like receptor (CRLR) and receptor-activity-modifying protein (RAMP), with IC₅₀s of 1 nM and 300 nM for CRLR/RAMP1 and CRLR/RAMP2 in cells^[1]. IC₅₀ & Target: IC₅₀: 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 IC₅₀s 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].

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.

CAIndexNames:

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SMILES:

OC(C(F)(F)F)=O.[ACNTATCVTHRLAGLLSRSGGMVKS NFVPTNVGSKAF-NH₂(Disulfide bridge: Cys2-Cys7)]

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

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