Data Sheet

Product Name:	β-CGRP, human (TFA)
Cat. No.:	CS-0087199
Molecular Formula:	$C_{164}H_{268}F_3N_{51}O_{50}S_3$
Molecular Weight:	3907.38
Target:	CGRP Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	H2O : 25 mg/mL (6.40 mM; Need ultrasonic)

BIOLOGICAL ACTIVITY:

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]. 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 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].

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:

β-CGRP, human (TFA)

SMILES:

[ACNTATCVTHRLAGLLSRSGGMVKSNFVPTNVGSKAF-NH2(Disulfide bridge: Cys2-Cys7) (TFA salt)]

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