

## Product Data Sheet

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Product Name:  $\beta$ -CGRP (mouse)

Cat. No.: GC74300

### Chemical Properties

Cas. No.

Formula  $C_{165}H_{265}N_{49}O_{55}S_2$  M.Wt 3879.29

Solubility  $H_2O : \geq 100 \text{ mg/mL (25.78 mM)}$  Storage Store at  $-20^\circ\text{C}$ , Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at  $37^\circ\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^\circ\text{C}$  for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Ser-Cys-Asn-Thr-Ala-Thr-Cys-Val-Thr-  
His-Arg-Leu-Ala-Asp-Leu-Leu-Ser-Arg-  
Ser-Gly-Gly-Val-Leu-Lys-Asp-Asn-Phe-  
Val-Pro-Thr-Asp-Val-Gly-Ser-Glu-Ala-  
Phe-NH<sub>2</sub> (Disulfide bridge: Cys<sub>2</sub>-Cys<sub>7</sub>)

### Background

$\beta$ -CGRP (mouse) is a calcitonin gene-related peptide that induces vasodilation.  $\beta$ -CGRP (mouse) can be utilized in cardiovascular, pro-inflammatory, migraine and metabolic research.

References:

[1]. Whitby K, et al. Castanospermine, a potent inhibitor of dengue virus infection in vitro and in vivo. J Virol. 2005 Jul;79(14):8698-706.

[2]. Xu H, et al. Transcriptional Atlas of Intestinal Immune Cells Reveals that Neuropeptide  $\alpha$ -CGRP

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

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Modulates Group 2 Innate Lymphoid Cell Responses. Immunity. 2019 Oct 15;51(4):696-708.e9.

[3]. Arulmani U, et al. Effects of the calcitonin gene-related peptide (CGRP) receptor antagonist BIBN4096BS on alpha-CGRP-induced regional haemodynamic changes in anaesthetised rats. Basic Clin Pharmacol Toxicol. 2004 Jun;94(6):291-7.

[4]. Park SH, et al. Role of  $\alpha$ -CGRP in the regulation of neurotoxic responses induced by kainic acid in mice. Peptides. 2013 Jun;44:158-62.

[5]. 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.

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