

## Calcitonin Gene Related Peptide (CGRP) (83-119), rat TFA

## Chemical Properties

CAS No. :

Formula: C162H262N50O52S2.C2HF3O2

Molecular Weight:

Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Calcitonin Gene Related Peptide (CGRP) (83-119), rat (TFA), is a neuropeptide from the calcitonin family composed of 37 amino acids and functions via (CRLR).
Targets(IC50)	Others
In vitro	Calcitonin Gene Related Peptide (CGRP) (83-119), rat (TFA), is part of the calcitonin family of neuropeptides, which includes adrenomedullin, amylin, calcitonin, intermedin, and calcitonin receptor-stimulating peptide. It has two isoforms, $\alpha$ CGRP and $\beta$ CGRP, and interacts with the calcitonin receptor-like receptor (CRLR). CGRP is significant in migraine pathophysiology and is linked to the activation of the trigeminovascular system. It potentially acts postjunctionally in areas involved in primary headaches.
In vivo	Calcitonin Gene Related Peptide (CGRP) (83-119), rat (TFA), is highly effective at causing oedema in rat orofacial tissue. When administered at a concentration of 100 $\mu$ L (8-33 pM), CGRP produces a rapidly onset (5-15min) and prolonged (6h), dose-dependent swelling in the rat cheek. Additionally, it induces a less pronounced oedematogenic response in the rat hind paw, which can be inhibited by a CGRP antagonist. Furthermore, CGRP (16 pM) enhances the oedema caused by the simultaneous injection of substance P (3.7 nM).

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