

CGRP (83-119), rat TFA

Chemical Properties

CAS No. :

Formula: C162H262N50O52S2.C2HF3O2

Molecular Weight: 3920.32

Appearance: no data available

Storage:

keep away from moisture

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

Ser-Cys-Asn-Thr-Ala-Thr-Cys-Val-
Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-
Ser-Arg-Ser-Gly-Gly-Val-Val-Lys-
Asp-Asn-Phe-Val-Pro-Thr-Asn-Val-
Gly-Ser-Glu-Ala-Phe-NH₂
(Disulfide bridge: Cys2-Cys7)(TFA salt)

Biological Description

Description	CGRP (83-119), rat TFA (Calcitonin Gene Related Peptide(83-119), rat TFA) is a 37 amino acid calcitonin family of neuropeptide, acts through calcitonin receptor-like receptor.
Targets(IC50)	Others
In vitro	Calcitonin Gene Related Peptide (CGRP) (83-119), rat (TFA) belongs to the calcitonin family of neuropeptides which also includes adrenomedullin, amylin, calcitonin, intermedin and calcitonin receptor-stimulating peptide. Calcitonin Gene Related Peptide (CGRP) has two isoforms (α CGRP and β CGRP), and acts through calcitonin receptor-like receptor (CRLR)[1]. Calcitonin Gene Related Peptide (CGRP) plays a key role in migraine pathophysiology and is associated with activation of the trigeminovascular system. CGRP possibly acts postjunctionally in these areas putatively involved in primary headaches[2].
In vivo	Calcitonin Gene Related Peptide (CGRP) (83-119), rat (TFA) is a potent inducer of oedema in rat orofacial tissue. CGRP (100 μ L; 8-33 pM) induces a rapidly developing (5-15?min) and long-lasting (6?h), dose-dependent oedema in the rat cheek. CGRP induces a smaller oedematogenic effect in the rat hind paw also blocked by the CGRP antagonist. CGRP (16 pM) potentiates the oedema induced by co-injected substance P (3.7 nM)[3].

Solubility Information

Solubility	H2O: 10 mg/mL (2.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2551 mL	1.2754 mL	2.5508 mL
5 mM	0.051 mL	0.2551 mL	0.5102 mL
10 mM	0.0255 mL	0.1275 mL	0.2551 mL
50 mM	0.0051 mL	0.0255 mL	0.051 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

S. Ghatta, et al. Calcitonin gene-related peptide: Understanding its role. Educational Forum. 20.6.2004.

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