

Adrenomedullin (AM) (22-52), human TFA

Cat. No.:	HY-P1471A
Molecular Formula:	C ₁₆₁ H ₂₅₃ N ₄₆ F ₃ O ₅₀
Molecular Weight:	3690.06
Sequence:	Thr-Val-Gln-Lys-Leu-Ala-His-Gln-Ile-Tyr-Gln-Phe-Thr-Asp-Lys-Asp-Lys-Asp-Asn-Val-Ala-Pro-Arg-Ser-Lys-Ile-Ser-Pro-Gln-Gly-Tyr-NH ₂
Sequence Shortening:	TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY-NH ₂
Target:	CGRP Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Adrenomedullin (AM) (22-52), human (22-52-Adrenomedullin human) TFA, an NH ₂ terminal truncated adrenomedullin analogue, is an adrenomedullin receptor antagonist. Adrenomedullin (AM) (22-52), human also antagonizes the calcitonin generated peptide (CGRP) receptor in the hindlimb vascular bed of the cat ^[1] .
IC₅₀ & Target	Adrenomedullin receptor, CGRP receptor ^[1]
In Vitro	<p>Adrenomedullin (AM) (22-52), human (22-52-Adrenomedullin human) TFA shows no effect on hindlimb perfusion pressure responses to adrenomedullin (ADM) at 120 nmol. However, Adrenomedullin (AM) (22-52), human selectively and reversibly decreases vasodilator responses to human calcitonin generated peptide (hCGRP) at 30 nmol, with similar effect to that of CGRP antagonist^[1].</p> <p>Adrenomedullin (AM) (22-52), human competitively inhibits the binding of the Adrenomedullin in a dose-dependent manner, inhibits Adrenomedullin -induced cAMP accumulation in rat vascular smooth muscle cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Champion HC, et al. Adrenomedullin-(22-52) antagonizes vasodilator responses to CGRP but not adrenomedullin in the cat. *Am J Physiol.* 1997 Jan;272(1 Pt 2):R234-42.
- [2]. Ziolkowska A, et al. Effects of adrenomedullin and its fragment 22-52 on basal and ACTH-stimulated secretion of cultured rat adrenocortical cells. *Int J Mol Med.* 2003 May;11(5):613-5.

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

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