

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

<b>Cat. No.:</b>	HY-P1471
<b>CAS No.:</b>	159899-65-7
<b>Molecular Formula:</b>	C <sub>159</sub> H <sub>252</sub> N <sub>46</sub> O <sub>48</sub>
<b>Molecular Weight:</b>	3576.04
<b>Sequence:</b>	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 <sub>2</sub> TVQKLAHQIQFTDKDKDNVAPRSKISPQGY-NH <sub>2</sub>
<b>Sequence Shortening:</b>	TVQKLAHQIQFTDKDKDNVAPRSKISPQGY-NH <sub>2</sub>
<b>Target:</b>	CGRP Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Sealed storage, away from moisture Powder    -80°C    2 years -20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (27.96 mM; Need ultrasonic)  
H<sub>2</sub>O : 50 mg/mL (13.98 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	0.2796 mL	1.3982 mL	2.7964 mL
	5 mM	0.0559 mL	0.2796 mL	0.5593 mL
	10 mM	0.0280 mL	0.1398 mL	0.2796 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Adrenomedullin (AM) (22-52), human, an NH<sub>2</sub> terminal truncated adrenomedullin analogue, is an adrenomedullin receptor antagonist, and also antagonizes the calcitonin generated peptide (CGRP) receptor in the hindlimb vascular bed of the cat [1][2].

#### IC<sub>50</sub> & Target

Adrenomedullin receptor, CGRP receptor<sup>[1]</sup>

#### In Vitro

Adrenomedullin (AM) (22-52), human 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<sup>[1]</sup>. 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<sup>[1]</sup>.

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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

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