

## Adrenomedullin (AM) (1-52), human TFA

<b>Cat. No.:</b>	HY-P1455A
<b>Molecular Formula:</b>	C <sub>266</sub> H <sub>407</sub> F <sub>3</sub> N <sub>80</sub> O <sub>79</sub> S <sub>3</sub>
<b>Molecular Weight:</b>	6142.76
<b>Sequence:</b>	Tyr-Arg-Gln-Ser-Met-Asn-Asn-Phe-Gln-Gly-Leu-Arg-Ser-Phe-Gly-Cys-Arg-Phe-Gly-Thr-Cys-Thr-Val-Gln-Lys-Leu-Ala-His-Gln-Ile-Tyr-Gln-Phe-Thr-Asp-Lys-Asp-Lys-Asp-Asn-Va <small>YRQSMNMFQGLRSFGCRFGTCTVQKLAHQIQFTDKDKDNVAPRSKISPQGY-NH<sub>2</sub> (Disulfide bridge: Cys16-Cys21)</small>
<b>Sequence Shortening:</b>	YRQSMNMFQGLRSFGCRFGTCTVQKLAHQIQFTDKDKDNVAPRSKISPQGY-NH <sub>2</sub> (Disulfide bridge: Cys16-Cys21)
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<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 : 25 mg/mL (4.07 mM; Need ultrasonic)  
 H<sub>2</sub>O : 5 mg/mL (0.81 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.1628 mL	0.8140 mL	1.6279 mL
	5 mM		---	---	---
	10 mM		---	---	---

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

### BIOLOGICAL ACTIVITY

#### Description

Adrenomedullin (AM) (1-52), human (TFA) affects cell proliferation and angiogenesis in cancer.

#### In Vitro

To explore the effect of Adrenomedullin (AM) (1-52), human on astroglioma cells, CRT-MG cells are incubated in the absence or presence of Adrenomedullin (AM) (1-52), human (ADM1-52) for 48 h in a medium containing 1% FBS, and wound-healing assay is performed. The number of cells migrating to the wound region significantly increases in the ADM1-52-treated cells, in a dose-dependent manner, compared to the untreated cells<sup>[1]</sup>.

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

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## PROTOCOL

### Cell Assay <sup>[1]</sup>

CRT-MG cells are scraped off the bottom of a culture plate using a pipette tip to create a cell-free area. The cell culture is washed with PBS to remove cell debris and then incubated with oncostatin M (OSM), Adrenomedullin (AM) (1-52), human (ADM1-52; 0.1  $\mu$ M and 0.5  $\mu$ M) for 48 h in 1% FBS DMEM. The wound area is photographed after scratching for control. The number of cells migrating into the initial wound area is counted at 48 h after scratching<sup>[1]</sup>.

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## REFERENCES

[1]. Lim SY, et al. Transcriptional regulation of adrenomedullin by oncostatin M in human astrogloma cells: implications for tumor invasion and migration. Sci Rep. 2014 Sep 23;4:6444.

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

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