

Adrenomedullin/ADM Protein, Human (HEK293, Fc)

Cat. No.:	HY-P74426
Synonyms:	Pro-adrenomedullin; ADM; Adrenomedullin; AM; PAMP
Species:	Human
Source:	HEK293
Accession:	P35318 (Y95-Y146)
Gene ID:	133
Molecular Weight:	Approximately 39 kDa

PROPERTIES

AA Sequence	Y R Q S M N N F Q G L R S F G C R F G T C T V Q K L A H Q I Y Q F T D K D K D N V A P R S K I S P Q G Y
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Adrenomedullin (ADM) and PAMP are potent hypotensive and vasodilatory agents with numerous reported actions primarily linked to the physiological control of fluid and electrolyte homeostasis. In the kidney, ADM exhibits diuretic and natriuretic effects, while both ADM and PAMP inhibit aldosterone secretion through direct actions on the adrenal glands. In the pituitary gland, both peptides, at physiologically relevant doses, inhibit basal ACTH secretion. Furthermore, ADM and PAMP seem to act in the brain and pituitary gland, facilitating the loss of plasma volume, actions that complement their hypotensive effects in blood vessels. These multifaceted actions underscore the role of ADM in regulating cardiovascular and hormonal processes associated with fluid and electrolyte balance.
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Caution: Product has not been fully validated for medical applications. For research use only.

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