

Recombinant Rat Adrenomedullin/ADM Protein (His Tag)

Catalog Number: PDER100204

Note: Centrifuge before opening to ensure complete recovery of vial contents.

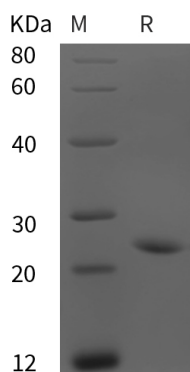
Description

Species	Rat
Source	E.coli-derived Rat Adrenomedullin protein Thr21-Leu185, with an N-terminal His
Calculated MW	18.0 kDa
Observed MW	25 kDa
Accession	P43145
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat Adrenomedullin/ADM proteins, 2 µg/lane of Recombinant Rat Adrenomedullin/ADM proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 25 kDa.

Background

Adrenomedullin (ADM, also AM) is a secreted, monomeric, 6 kDa member of the Adrenomedullin family of molecules. It is widely expressed, being found in smooth muscle cells, endothelium, adrenal medulla chromaffin cells, fibroblasts and keratinocytes. ADM has multiple functions, including vasodilation, the maintenance of vascular integrity, and the suppression of inflammatory mediator secretion. The ADM preproprecursor is 185 amino acids (aa) in length. It contains a 21 aa signal sequence, a processed 20 aa peptide termed PAMP (aa 22-41), an N-terminal propeptide (aa 45-91), the ADM precursor (amidation is required for maturation) (aa 94-143), and a C-terminal propeptide (aa 150-185). The ADM precursor with a terminal Gly147 circulates naturally with bioactive, mature amidated ADM (aa 94-143).

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