Recombinant Rat Adrenomedullin/ADM protein (His tag)

Catalog Number:PDER100060

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

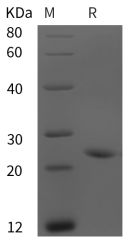
Description

Synonyms	ADM precursor;Adrenomedullin;PAMP;Preproadrenomedullin;ProAM N terminal 20 peptide;ProAM N20
Species	Rat
Expression Host	E.coli
Sequence	Thr 21-Leu 185
Accession	P43145
Calculated Molecular Weight	18.0 kDa
Observed molecular weight	25 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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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