

## Pro-Adrenomedullin (153-185), human

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

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Pro-Adrenomedullin(153-185),human, (C143H224N42O43), a peptide with the sequence H2N-SLPEAGPGR TLVSSKPQAHGAPAPPSGSAPHFL-OH, MW= 3219.6. Adrenomedullin (AM) is a ubiquitously expressed peptide initially isolated from pheochromyctoma in 19931. AM was initially identified as a vasodilator, some have cited this as the most potent endogenous vasodilatory peptide found in the body2. Differences in opinion regarding the ability of AM to relax vascular tone arises from the differences in the model system used3. Other effects of AM include increasing the tolerance of cells to oxidative stress and hypoxic injury and angiogenesis. AM is seen as a positive influence in diseases such as hypertension, myocardial infarction, chronic obstructive pulmonary disease and other cardiovascular diseases, whereas it can be seen as a negative factor in potentiating the potential of cancerous cells to extend their blood supply and cause cell proliferation.

## Reference

Kitamura K, Kato J, Kawamoto M, Tanaka M, Chino N, Kangawa K, et al. The intermediate form of glycine-extended adrenomedullin is the major circulating molecular form in human plasma. *Biochem Biophys Res Commun* 1998; 244:551-555  
Cockcroft et al., *Br J Clin Pharmacol*. 1997 Jul;44(1):57-60.  
Hamid SA, Baxter GF, *Pharmacol Ther*. Feb;105(2):95-112.2005.

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