
Product Data Sheet

Product Name: Pro-Adrenomedullin (153-185), human

Cat. No.: GP10072

Chemical Properties

Cas. No.

Formula C₁₄₃H₂₂₄N₄₂O₄₃

M.Wt

3219.6

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Pro-Adrenomedullin(153-185),human, (C₁₄₃H₂₂₄N₄₂O₄₃), a peptide with the sequence H₂N-SLPEAGPGRTLVS SKPQAHGAPAPPSGSAPHFL-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.

References:

1. 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
2. Cockcroft et al., *Br J Clin Pharmacol*. 1997 Jul;44(1):57-60.

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

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3. Hamid SA, Baxter GF, Pharmacol Ther. Feb;105(2):95-112.2005.

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