

Product Data Sheet

Product Name: Adrenomedullin (1-52) (human) (trifluoroacetate salt)

Cat. No.: GC42740

Chemical Properties

Cas. No.

Formula C264H406N80O77S3•XCF3COOH M.Wt 6028.7

Solubility Water: 1 mg/ml 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

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H-Tyr-Arg-Gln-Ser-Met-Asn-Asn-Phe-Gln-Gly-
Leu-Arg-Ser-Phe-Gly-Cys-Arg-Phe-Gly-Thr-
Cys-Thr-Val-Gln-Lys-Leu-Ala-His-Gln-Ile-
Tyr-Gln-Phe-Thr-Asp-Lys-Asp-Lys-Asp-Asn-
Val-Ala-Pro-Arg-Ser-Lys-Ile-Ser-Pro-Gln-
Gly-Tyr-NH2
• XCF3COOH
  
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Background

Adrenomedullin (1-52) is a peptide with diverse biological activities. It belongs to the calcitonin family of peptides, which includes amylin , calcitonin gene-related peptide , and calcitonin . Adrenomedullin (1-52) is expressed in pheochromocytomas, adrenal medulla, heart, lung, and kidney as well as human umbilical vein endothelial cells (HUVECs) and in human glomerular epithelial and hematopoietic cell lines. In vivo, adrenomedullin (1-52) (10-3,000 ng per animal) reverses increases in lobar arterial pressure induced by U-46619 in a dose-dependent manner in cats but has no effect on basal lobar arterial pressure or systemic arterial pressure. It reduces mechanical ventilation-induced lung injury and sepsis as well as liver and gut injury induced by ventilator-induced lung injury in a mouse model of pneumococcal pneumonia infection. Adrenomedullin (1-52) improves survival and inhibits cardiac tissue damage induced by doxorubicin in mice. Adrenomedullin (1-52) also reduces hyperoxia-induced right ventricular hypertrophy and artery thickness in a rat model of bronchopulmonary dysplasia.

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

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