

Adrenomedullin (AM) (13-52), human

Chemical Properties

CAS No. : 154765-05-6

Formula: C200H308N58O59S2

Molecular Weight: 4533.10

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

SFQCRFGTCTVQRLAKHYQFTKDKDKMWRPQKIPQDY-AM₁ (Biosulfide bridge: Cys₁-Cys₂)

Biological Description

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| Description | Adrenomedullin (AM) (13-52), human is a 40-amino acid peptide belonging to the calcitonin gene-related peptide (CGRP) family. As a potent endothelium-dependent vasodilator, it regulates vascular tone by acting on the CGRP1 receptor and can inhibit pulmonary vasoconstriction. |
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Solubility Information

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| Solubility | H2O: 53.34 mg/mL (11.77 mM), Sonication is recommended. DMSO: 13.34 mg/mL (2.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.2206 mL | 1.103 mL | 2.206 mL |
| 5 mM | 0.0441 mL | 0.2206 mL | 0.4412 mL |
| 10 mM | 0.0221 mL | 0.1103 mL | 0.2206 mL |
| 50 mM | 0.0044 mL | 0.0221 mL | 0.0441 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Gumusel B, et al. Analysis of responses to adrenomedullin-(13-52) in the pulmonary vascular bed of rats. Am J Physiol. 1998 Apr;274(4 Pt 2):H1255-63.
- Kita, T., et al. Translational studies of adrenomedullin and related peptides regarding cardiovascular diseases. Hypertens Res 45, 389-400 (2022).

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481