PRODUCT INFORMATION



Adrenomedullin (1-50) amide (rat) (trifluoroacetate salt)

Item No. 27208

Synonyms:

 $C_{242}H_{381}N_{77}O_{75}S_5 \bullet XCF_3COOH$ MF:

FW: **Purity:** Supplied as: A solid Storage: -20°C Stability: ≥4 years

• XCF₂COOH

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Adrenomedullin (1-50) amide (rat) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the adrenomedullin (1-50) amide (rat) (trifluoroacetate salt) in water. The solubility of adrenomedullin (1-50) amide (rat) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Adrenomedullin (1-50) is a peptide hormone with RNA expressed in rat adrenal glands, lung, kidney, heart, and spleen, as well as in the duodenum and submandibular glands. The rat amino acid sequence is similar to human adrenomedullin (1-52) (Item No. 24889) but lacks two amino acids and contains six substitutions. Adrenomedullin (1-50) increases cAMP concentration in rat platelets (ED $_{50}$ = 50 nM) and decreases mean blood pressure in anesthetized rats when administered at an intravenous dose of 1 nmol/kg. It reduces vascular hyperpermeability and increases survival in a rat model of α -toxin-induced septic shock.² Adrenomedullin (1-50) also inhibits binding of human adrenomedullin to rat astrocytes in vitro $(IC_{50} = 0.27 \text{ nM}).^3$

References

- 1. Sakata, J., Shimokubo, T., Kitamura, K., et al. Molecular cloning and biological activities of rat adrenomedullin, a hypotensive peptide. Biochem. Biophys. Res. Commun. 195(2), 921-927 (1993).
- Temmesfeld-Wollbrück, T., Brell, B., Dávid, I., et al. Adrenomedullin reduces vascular hyperpermeability and improves survival in rat septic shock. Intensive Care Med. 33(4), 703-710 (2007).
- Zimmerman, U., Fischer, J.A., Frei, K., et al. Identification of adrenomedullin receptors in cultured rat astrocytes and in neuroblastboma x glioma hybrid cells (NG108-15). Brain Res. 724(2), 238-245 (1996).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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