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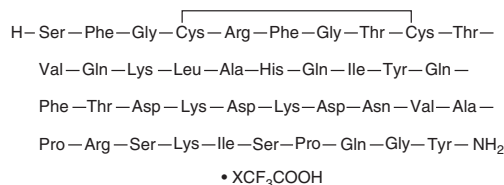
PRODUCT INFORMATION



Adrenomedullin (13-52) (human) (trifluoroacetate salt)

Item No. 24891

Formal Name: L-seryl-L-phenylalanylglycyl-L-cysteinyl-L-arginyl-L-phenylalanylglycyl-L-threonyl-L-cysteinyl-L-threonyl-L-valyl-L-glutaminy-L-lysyl-L-leucyl-L-alanyl-L-histidyl-L-glutaminy-L-isoleucyl-L-tyrosyl-L-glutaminy-L-phenylalanyl-L-threonyl-L- α -aspartyl-L-lysyl-L- α -aspartyl-L-lysyl-L- α -aspartyl-L-asparaginy-L-valyl-L-alanyl-L-prolyl-L-arginyl-L-seryl-L-lysyl-L-isoleucyl-L-seryl-L-prolyl-L-glutaminyglycyl-L-tyrosinamide, cyclic (4 \rightarrow 9)-disulfide, trifluoroacetate salt



Synonyms: ADM, AM
MF: C₂₀₀H₃₀₈N₅₈O₅₉S₂ • XCF₃COOH
FW: 4,533.1
Purity: \geq 95%
Supplied as: A lyophilized powder
Storage: -20°C
Stability: \geq 4 years

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

Laboratory Procedures

Adrenomedullin (13-52) (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the adrenomedullin (13-52) (human) (trifluoroacetate salt) in water. The solubility of adrenomedullin (13-52) (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Adrenomedullin (13-52) is a truncated form of adrenomedullin (1-52) (Item No. 24889).¹ It induces nitric oxide-dependent relaxation of and inhibits release of angiotensin II (Item No. 17150) and endothelin-1 (Item No. 24127) from isolated rat aorta. *In vivo*, adrenomedullin (13-52) decreases mean arterial pressure (MAP) in spontaneously and renal hypertensive rats in a dose-dependent manner. Adrenomedullin (13-52) (10-3,000 ng per animal) reverses increases in lobar arterial pressure induced by U-46619 (Item No. 16450) in a dose-dependent manner in cats but has no effect on basal lobar arterial pressure or systemic arterial pressure.² It also potentiates inflammatory edema and neutrophil accumulation in rats.³

References

1. Tian, Q., Zhao, D., Tan, D.Y., et al. Vasodilator effect of human adrenomedullin (13-52) on hypertensive rats. *Can. J. Physiol. Pharmacol.* **73**(7), 1065-1069 (1995).
2. Lippton, H., Chang, J.K., Hao, Q., et al. Adrenomedullin dilates the pulmonary vascular bed *in vivo*. *J. Appl. Physiol.* **76**(5), 2154-2156 (1994).
3. Chu, D.Q., Choi, M.K., Foster, P., et al. A comparative study of the ability of calcitonin gene-related peptide and adrenomedullin₁₃₋₅₂ to modulate microvascular but not thermal hyperalgesia responses. *Br. J. Pharmacol.* **130**(7), 1589-1596 (2000).

WARNING

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

SAFETY DATA

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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