PRODUCT INFORMATION

Proadrenomedullin (45-92) (human) (trifluoroacetate salt)

Item No. 27209

Formal Name: L-α-glutamyl-L-leucyl-L-arginyl-L-methionyl-L-seryl-L-seryl-L-seryl-L-tyrosyl-L-prolyl-L-threonylglycyl-L-leucyl-L-alanyl-L-α-aspartyl-L-valyl-L-lysyl-L-alanylglycyl-L-prolyl-L-alanyl-L-glutaminyl-L-threonyl-L-leucyl-L-isoleucyl-L-arginyl-L-prolyl-L-glutaminyl-L-α-aspartyl-L-methionyl-L-lysylglycyl-L-alanyl-L-seryl-L-arginyl-L-seryl-L-prolyl-L-α-glutamyl-L-α-aspartyl-L-seryl-L-seryl-L-prolyl-L-α-aspartyl-L-alanyl-L-alanyl-L-arginyl-L-isoleucyl-L-arginyl-L-valine, trifluoroacetate salt

Synonyms: Mid-Regional proADM, Mid-Regional Proadrenomedullin, MR-proADM, MR-proAM, proADM, proAM

MF: $C_{215}H_{359}N_{67}O_{73}S_2 \bullet XCF_3COOH$

FW: 5,114.7

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

H – Glu – Leu – Arg – Met – Ser – Ser – Ser – Tyr – Pro – Thr –
Gly – Leu – Ala – Asp – Val – Lys – Ala – Gly – Pro – Ala –
Gln – Thr – Leu – Ile – Arg – Pro – Gln – Asp – Met – Lys –
Gly – Ala – Ser – Arg – Ser – Pro – Glu – Asp – Ser – Ser –
Pro – Asp – Ala – Ala – Arg – Ile – Arg – Val – OH

• XCF_3COOH

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

Laboratory Procedures

Proadrenomedullin (45-92) (MR-proADM) (human) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the MR-proADM (human) (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. MR-proADM (human) (trifluoroacetate salt) is soluble in the organic solvent formic acid a concentration of approximately 1 mg/ml.

Description

MR-proADM is a peptide that is comprised of amino acid residues 45-92 of preproadrenomedullin.[1] MR-proADM has no effect on precontracted isolated cat pulmonary arterial rings when used at concentrations up to 10 µM, unlike adrenomedullin (1-52) (Item No. 24889) and adrenotensin, which induce relaxation and contraction, respectively.[2] Levels of MR-proADM are elevated in the plasma of patients with sepsis and those with cardiovascular disease and positively correlate with disease severity in patients with community-acquired pneumonia.[1,3]

References

1. Morgenthaler, N.G., Struck, J., Alonso, C., *et al.* Measurement of midregional proadrenomedullin in plasma with an immunoluminometric assay. *Clin. Chem.* **51(10)**, 1823-1829 (2005).
2. Gumusel, B., Chang, J.-K., Hyman, A., *et al.* Adrenotensin: An ADM gene product with the opposite effects of ADM. *Life Sci.* **57(8)**, PL87-PL90 (1995).
3. Huang, D.T., Angus, D.C., Kellum, J.A., *et al.* Midregional proadrenomedullin as a prognostic tool in community-acquired pneumonia. *Chest* **136(3)**, 823-831 (2009).

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