

Product Data Sheet

Product Name: Atrial Natriuretic Peptide (3-28) (human) (trifluoroacetate salt)

Cat. No.: GC42872

Chemical Properties

Cas. No.

Formula C₁₁₈H₁₈₇N₄₃O₃₆S₃•XCF₃COOH M.Wt 2880.2

Solubility Water: 1 mg/ml Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.



Background

Atrial natriuretic peptide (ANP) (3-28) is a synthetic and truncated form of ANP, which is an endogenous peptide generated by proteolysis of prepro-ANP that is secreted by cardiomyocytes in the heart. ANP (3-28) potently inhibits renin release from cultured renal juxtaglomerular cells ($K_i = 10$ pM) in a cGMP-dependent manner. It also dose-dependently decreases mean arterial pressure (MAP) and arterial plasma renin activity and increases fractional sodium and calcium excretion, urine volume, and glomerular filtration rate in conscious dogs with a maximum effect attained when administered at a dose of 200 pM. ANP (3-28) (human) is a 26 amino acid peptide corresponding to the truncated human protein sequence.

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

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