

Product Data Sheet

Product Name: Copeptin (human) acetate

Cat. No.: GC81828

Chemical Properties

Cas. No.

Formula $C_{177}H_{279}N_{49}O_{58} \cdot xC_2H_4O_2$ M.Wt 4021.4

Solubility DMSO: 100 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

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

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

Structure



Background

Copeptin (human) acetate is a peptide biochemical reagent corresponding to the 39 amino acid sequence at the C-terminus of human pre-pro-vasopressin, which serves as a stable surrogate biomarker reflecting the secretion of arginine vasopressin (AVP). Copeptin (human) acetate can be

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used in studies related to AVP secretion, fluid and osmotic homeostasis, stress responses, and cardiovascular biomarkers [1] [2] [3].

In Vitro, Copeptin (human) (1-100 nM) acetate has no effect on the basal tone and spontaneous myogenic contractions of human proximal or distal gastric circular muscle; it has no effect on the basal tone and spontaneous myogenic contractions of isolated distal gastric tissues from mice; and it has no effect on the tension of isolated mouse aortas pre-contracted to submaximal levels^[2].

References:

- [1]. Mu D, et al. Copeptin as a Diagnostic and Prognostic Biomarker in Cardiovascular Diseases. *Frontiers in cardiovascular medicine*. 2022;9:901990.
- [2]. Makwana R, et al. Copeptin, a surrogate marker of arginine vasopressin, has no ability to modulate human and mouse gastric motility. *European journal of pharmacology*. 2021 Feb 05;892:173740.
- [3]. Morgenthaler NG, et al. Assay for the measurement of copeptin, a stable peptide derived from the precursor of vasopressin. *Clinical chemistry*. 2006 Jan;52(1):112-9.

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