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-provasopressin, which serves as a stable surrogate biomarker reflecting the secretion of arginine vasopressin (AVP). Copeptin (human) acetate can be

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.