
Product Data Sheet

Product Name: Pressinoic Acid

Cat. No.: GC31128

Chemical Properties

Cas. No. 35748-51-7

SMILES Cys-Tyr-Phe-Gln-Asn-Cys (Disulfide bridge: Cys1-Cys6)

Formula C₃₃H₄₂N₈O₁₀S₂ M.Wt 774.86

Solubility Soluble in Water Storage Store at -20°C

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 **Protocol**

Single halved pituitary glands of female CFE rats weighing 100 to 150 g are preincubated for two hours in Krebs-Ringer-bicarbonate-glucose (2%) medium under 5% CO₂ in O₂, and then for one hour periods each with 300 ng. lysine vasopressin and the sample of vasopressin ring peptide Pressinoic Acid. The incubations are separated by a one hour ish period. The media from the pituitary

Cell experiment: incubations are added to rat adrenal quarters superfused for estimation of the steroidogenic response to the corticotrophin released. The steroidogenic effect of the unstimulated release of corticotrophin by the pituitary tissue and the possible steroidogenic effect of the peptide directly on the adrenal tissue are measured together by adding the peptide to the media from pituitary tissue incubated without peptide for one hour[1].

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

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References:

- [1]. Saffran M, et al. Pressinoic acid: a peptide with potent corticotrophin-releasing activity. *Biochem Biophys Res Commun.* 1972 Nov 1;49(3):748-51.
- [2]. Langs DA, et al. Structure of pressinoic acid: the cyclic moiety of vasopressin. *Science.* 1986 Jun 6;232(4755):1240-2.

Background

Pressinoic Acid is a synthetic hexapeptide with potent corticotrophin-releasing activity. Pressinoic Acid is also an oxytocin inhibitor; it induces maternal behavior.

Pressinoic acid, a synthetic hexapeptide that corresponds to the ring of vasopressin, exhibits corticotrophin-releasing activity in vitro in doses of 3 and 30 ng/mL[1].

[1]. Saffran M, et al. Pressinoic acid: a peptide with potent corticotrophin-releasing activity. *Biochem Biophys Res Commun.* 1972 Nov 1;49(3):748-51. [2]. Langs DA, et al. Structure of pressinoic acid: the cyclic moiety of vasopressin. *Science.* 1986 Jun 6;232(4755):1240-2.

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