

Urotensin I acetate (83930-33-0 Free base)

Chemical Properties

CAS No. :

Formula:

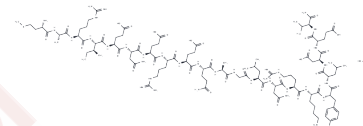
Molecular Weight:

Storage:

Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Urotensin I acetate, a CRF-like neuropeptide, acts as an agonist of CRF receptor with pEC50s of 11.46, 9.36 and 9.85 for human CRF1, human CRF2 and rat CRF2 α receptors in CHO cells, and Kis of 0.4, 1.8, and 5.7 nM for hCRF1, rCRF2 α and mCRF2 β receptors, respectively[1][2].
Targets(IC50)	CRFR
In vitro	Urotensin I acetate is 2-3 times more potent than CRF or sauvagine in stimulating ACTH release from a superfused goldfish anterior pituitary cell column[3]. Rat tail artery strips were incubated in the presence of 4 x 10 ⁽⁻³⁾ M theophylline and Urotensin I acetate. At the concentrations of 1.50, 7.50 μ M but not of 0.75 μ M Urotensin I acetate, the content of cAMP increased significantly[4].
In vivo	Intraperitoneal injections of urotensin I acetate, a CRF-like neuropeptide isolated from the caudal neurosecretory system of the teleost <i>Catostomus commersoni</i> , ovine CRF and sauvagine all produced significant increases in circulating levels of plasma cortisol in goldfish in which endogenous ACTH secretion was suppressed with betamethasone[3]

Reference

- Smart D, et al. Characterisation using microphysiometry of CRF receptor pharmacology. *Eur J Pharmacol.* 1999 Aug 27;379(2-3):229-35.
- Reul JM, et al. Corticotropin-releasing factor receptors 1 and 2 in anxiety and depression. *Curr Opin Pharmacol.* 2002 Feb;2(1):23-33.
- Fryer J, et al. Urotensin I, a CRF-like neuropeptide, stimulates acth release from the teleost pituitary. *Endocrinology.* 1983;113(6):2308-2310.
- Gerritsen ME, et al. Urotensin I effects on intracellular content of cyclic AMP in the rat tail artery. *Eur J Pharmacol.* 1979;60(2-3):211-220.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481