Data Sheet (Cat.No.TP1199L)

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

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

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 CRF2α receptors in CHO cells, and Kis of 0.4, 1.8, and 5.7 nM for hCRF1, rCRF2α and mCRF2β 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 mU/ml but not of 0.75 mU/ml 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 Catostomus commersoni, 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.

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