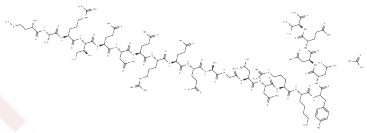
Data Sheet (Cat.No.TP1199L)

TargetMol

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 (83930-33-0 Free base) is a CRF-like neuropeptide (natural product), a CRF receptor agonist (EC50 as low as 3.5 pM for hCRF1, Ki=0.4 nM), with high affinity and receptor subtype selectivity, used for CRF receptor functional research.
Targets(IC50)	CRFR
In vitro	**Methods**: Using a goldfish anterior pituitary cell column, the stimulatory effect of Urotensin I acetate (83930-33-0 Free base) on ACTH release was measured and compared with CRF and sauvagine. **Results**: Urotensin I acetate was 2-3 times more potent than CRF or sauvagine in stimulating ACTH release.[1] **Methods**: Rat tail artery strips were incubated in medium containing 4×10^{-3} M theophylline and treated with Urotensin I acetate at concentrations of 0.75, 1.50, and 7.50 mU/ml to detect changes in cAMP content. **Results**: Urotensin I acetate at 1.50 and 7.50 mU/ml significantly increased cAMP content, while the 0.75 mU/ml concentration had no significant effect.[2]
In vivo	**Methods**: Using a goldfish model with endogenous ACTH secretion suppressed by betamethasone, Urotensin I acetate (83930-33-0 Free base), ovine CRF, and sauvagine were administered via intraperitoneal injection to detect changes in plasma cortisol levels. **Results**: Urotensin I acetate, ovine CRF, and sauvagine all significantly increased plasma cortisol levels in goldfish.[1]

Reference

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.

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