
Product Data Sheet

Product Name: Urotensin II, mouse

Cat. No.: GC34236

Chemical Properties

Cas. No. 405137-01-1

SMILES {pGlu}-His-Gly-Ala-Ala-Pro-Glu-Cys-Phe-Trp-Lys-Tyr-Cys-Ile (Disulfide bridge: Cys8-Cys13)

Formula $C_{76}H_{100}N_{18}O_{19}S_2$ M.Wt 1633.86

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 sizes: ship with RT, or blue ice upon request.

Structure

Background

Urotensin II, mouse is an endogenous ligand for the orphan G-protein-coupled receptor GPR14 or SENR.

This sequence of the C-terminus cyclic region of Urotensin II (U-II) is completely conserved in most species, including in the fish, frog, human, porcine, rat, and mouse, and it is thought to be essential for the agonistic activity of U-II. Urotensin II plays a physiological role in the central nervous system. Intracerebroventricular administration of Urotensin II induces anxiogenic-like behaviors in the elevated plus maze test and the hole-board test in mice in a dose-dependent manner, as do corticotropin releasing factor (CRF). The effective doses of Urotensin II are 10-100-fold higher than these of CRF in these tests[1].

[1]. Matsumoto Y, et al. Intracerebroventricular administration of urotensin II promotes anxiogenic-like behaviors in rodents. *Neurosci Lett.* 2004 Mar 25;358(2):99-102.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA