

## Urotensin II (goby)(trifluoroacetate salt) Biochemical

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CATALOG #  
AAA227200

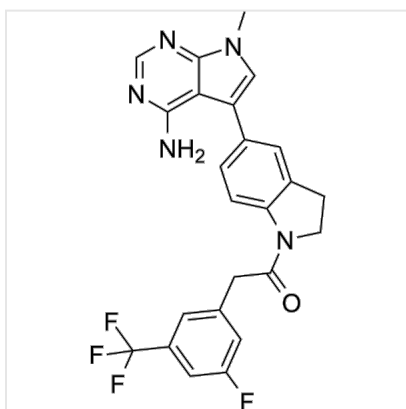
### PRODUCT SYNONYMS

Urotensin II (goby)(trifluoroacetate salt); Urotensin II (goby)(trifluoroacetate salt) biochemical

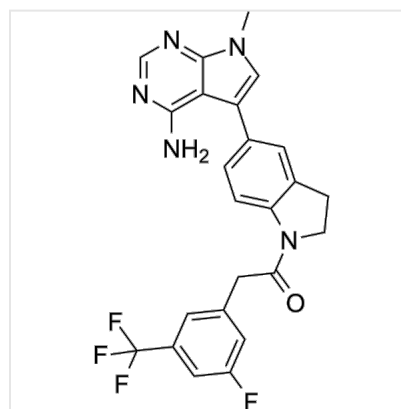
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | 98%                                                                                                                                                                                                                                                                                          |
| Solubility              | H <sub>2</sub> O: 1 mg/mL<br><1mg/ml refers to the product slightly soluble or insoluble                                                                                                                                                                                                     |
| In vitro                | In vivo, urotensin II (1.5-150 nmol/kg) decreases diastolic blood pressure and increases heart rate in anesthetized rats. It also reduces the pressor responses to sympathetic nerve stimulation, norepinephrine, and vasopressin in pithed rats when administered at a dose of 150 nmol/kg. |
| Preparation and Storage | Powder: -20 degree C for 3 years<br>In solvent: -80 degree C for 2 years                                                                                                                                                                                                                     |

### IMAGES



Structure  
PERK-IN-4, CAS 1337531-89-1



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### ADDITIONAL INFORMATION

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|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Urotensin II (goby)(trifluoroacetate salt) biochemical | Urotensin II is a peptide vasoconstrictor and agonist of the urotensin (UT) receptor ( $K_i = 2.06$ nM for the human recombinant receptor expressed in HEK293 cells). It stimulates intracellular calcium mobilization in HEK293 cells expressing human and rat UT ( $EC_{50}$ s = 0.47 and 0.78 nM, respectively) but decreases intracellular calcium concentration in goby ( <i>G. mirabilis</i> ) enterocytes when used at a concentration of 500 nM. Urotensin II (20 mU/ml) stimulates active sodium and chloride absorption across isolated goby posterior intestine in 5% seawater-adapted solution. <sup>3</sup> |
| References                                                                             | 1. Axten JM, et al. Discovery of 7-methyl-5-(1-([3-(trifluoromethyl)phenyl]acetyl)-2,3-dihydro-1H-indol-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (GSK2606414), a potent and selective first-in-class inhibitor of protein kinase R (PKR)-like endoplasmic reticulum kinase (PERK). <i>J Med Chem.</i> 2012;55(16):7193-7207.                                                                                                                                                                                                                                                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/urotensin-ii-goby-trifluoroacetate-salt/227200>