

**Product Name:** Gastrin I (human)

CAS Number: 10047-33-3

**Catalog No.:** 3006

EC Number: 233-157-0

**Batch No.:** 4**1. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Batch Molecular Formula:</b>	C <sub>97</sub> H <sub>124</sub> N <sub>20</sub> O <sub>31</sub> S
<b>Batch Molecular Weight:</b>	2098.22
<b>Physical Appearance:</b>	White lyophilised solid
<b>Net Peptide Content:</b>	87.4%
<b>Counter Ion:</b>	TFA
<b>Solubility:</b>	Soluble to 1 mg/ml in 5% NH <sub>4</sub> OH
<b>Storage:</b>	Desiccate at -20°C
<b>Peptide Sequence:</b>	Glp-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe-NH <sub>2</sub>

**2. ANALYTICAL DATA**

<b>HPLC:</b>	Shows 97.0% purity
<b>Mass Spectrum:</b>	Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

	Amino Acid Theoretical Actual		Amino Acid Theoretical Actual	
Ala	1.00	1.00	Lys	
Arg			Met	1.00
Asx	1.00	0.96	Phe	1.00
Cys			Pro	1.00
Glx	5.00	5.17	Ser	
Gly	2.00	1.98	Thr	
His			Trp	
Ile			Tyr	1.00
Leu	1.00	1.03	Val	1.12

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&amp;D Systems company

USA & CANADA Tel: (800) 343-7475   EUROPE Tel: +44 (0)1235 529449   CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

**Product Name:** Gastrin I (human)

CAS Number: 10047-33-3

**Catalog No.:** 3006**Batch No.:** 4

EC Number: 233-157-0

**Description:**

Endogenous peptide produced in the stomach that acts as a selective CCK<sub>2</sub> receptor agonist. Stimulates gastric acid secretion.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>97</sub>H<sub>124</sub>N<sub>20</sub>O<sub>31</sub>S

Batch Molecular Weight: 2098.22

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Glp-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-  
Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe-NH<sub>2</sub>

**Storage:** Desiccate at -20°C**Solubility & Usage Info:**Soluble to 1 mg/ml in 5% NH<sub>4</sub>OH

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Net Peptide Content:** 87.4% (Remaining weight made up of counterions and residual water).

**Counter Ion:** TFA**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

**References:**

**Noble** *et al* (1999) International union of pharmacology XXI. Structure, distribution, and functions of cholecystokinin receptors. *Pharmacol.Rev.* **51** 745. PMID: 10581329.

**Blandizzi** *et al* (1999) CCK1 and CCK2 receptors regulate gastric pepsinogen secretion. *Eur.J.Pharmacol.* **373** 71. PMID: 10408253.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&amp;D Systems company

USA & CANADA Tel: (800) 343-7475   EUROPE Tel: +44 (0)1235 529449   CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)