

Certificate of Analysiswww.tocris.com**Product Name:** [Pro³]-GIP (Rat)**Catalog No.:** 5837**Batch No.:** 2**1. PHYSICAL AND CHEMICAL PROPERTIES**

Batch Molecular Formula:	C ₂₂₆ H ₃₄₃ N ₆₁ O ₆₄ S
Batch Molecular Weight:	4970.63
Physical Appearance:	White lyophilised solid
Net Peptide Content:	79%
Counter Ion:	TFA
Solubility:	Soluble to 2 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Tyr-Ala-Pro-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-Arg-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-Gly-Lys-Lys-Asn-Asp-Trp-Lys-His-Asn-Leu-Thr-Gln

2. ANALYTICAL DATA

HPLC:	Shows 98% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

	Amino Acid Theoretical	Actual	Amino Acid Theoretical	Actual
Ala	3.00	2.86	Lys	5.00
Arg	1.00	1.01	Met	1.00
Asx	7.00	6.07	Phe	2.00
Cys			Pro	1.00
Glx	4.00	4.05	Ser	2.00
Gly	2.00	2.01	Thr	2.00
His	1.00	0.94	Trp	2.00
Ile	3.00	3.01	Tyr	2.00
Leu	3.00	3.02	Val	1.00

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

Product Information

www.tocris.com**Product Name:** [Pro³]-GIP (Rat)**Catalog No.:** 5837**Batch No.:** 2**Description:**

High affinity rat GIP receptor partial agonist ($K_d = 13$ nM). Increases cAMP accumulation in COS-7 cells transfected with rat GIP receptor, while also acting as a competitive antagonist of GIP.

Physical and Chemical Properties:Batch Molecular Formula: C₂₂₆H₃₄₃N₆₁O₆₄S

Batch Molecular Weight: 4970.63

Physical Appearance: White lyophilised solid

Peptide Sequence:

Tyr-Ala-Pro-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-Arg-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-Gly-Lys-Lys-Asn-Asp-Trp-Lys-His-Asn-Leu-Thr-Gln

Storage: Store at -20°C**Solubility & Usage Info:**

Soluble to 2 mg/ml in water

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: 79% (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:

Sparre-Ulrich et al (2016) Species-specific action of (Pro³)GIP - a full agonist at human GIP receptors, but a partial agonist and competitive antagonist at rat and mouse GIP receptors. *Br.J.Pharmacol.* **173** 27. PMID: 26359804.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors

Tel: +1 612 379 2956