

Certificate of Analysis

www.tocris.com

Product Name: Cetorelix Acetate

Catalog No.: 3536

Batch No.: 1

CAS Number: 145672-81-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₇₀ H ₉₂ ClN ₁₇ O ₁₄ ·C ₂ H ₄ O ₂
Batch Molecular Weight:	1491.11
Physical Appearance:	White lyophilised solid
Net Peptide Content:	100%
Counter Ion:	Acetate
Solubility:	Soluble in water
Storage:	Store at -20°C
Peptide Sequence:	Ac-D-2-Nal-D-(4-Cl-Phe)-D-(3-Pyridly-Ala)-Ser-Tyr-D-Cit-Leu-Arg-Pro-D-Ala-NH ₂ ·CH ₃ CO ₂ H

2. ANALYTICAL DATA

HPLC:	Shows 100% purity
Mass Spectrum:	Consistent with structure

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

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 World
www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: Cetrorelix Acetate**Catalog No.:** 3536**1**

CAS Number: 145672-81-7

Description:

Cetrorelix Acetate is a potent gonadotropin-releasing hormone (GnRH) receptor antagonist ($K_D = 0.202$ nM, $IC_{50} = 1.21$ nM). Suppresses production of luteinizing hormone (LH) and follicle-stimulating hormone (FSH) from the pituitary gland, which inhibits ovulation. Exhibits antiproliferative effects and displays efficacy against hormone-sensitive cancers in vivo. Also exhibits anxiolytic and antidepressant activity in vivo.

Physical and Chemical Properties:Batch Molecular Formula: $C_{70}H_{92}ClN_{17}O_{14}.C_2H_4O_2$

Batch Molecular Weight: 1491.11

Physical Appearance: White lyophilized solid

Peptide Sequence:Ac-D-2-Nal-D-(4-Cl-Phe)-D-(3-Pyridyl-Ala)-Ser-Tyr-D-Cit-Leu-Arg-Pro-D-Ala-NH₂.CH₃CO₂H**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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: 100% (Remaining weight made up of counterions and residual water).**Counter Ion:** Acetate**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:**Telegdy et al** (2009) Effects of the LHRH antagonist cetro. on the brain function in mice. *Neuropeptides* **43** 229. PMID: 19375162.**Grundker and Emons** (2003) Role of gonadotropin-releasing hormone (GnRH) in ovarian cancer. *Reprod.Biol.Endocrinol.* **1** 65. PMID: 14594454.**Beckers et al** (1997) Characterization of gonadotropin-releasing hormone analogs based on a sensitive cellular luciferase reporter gene assay. *Anal.Biochem.* **251** 17. PMID: 9300077.

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

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 World

www.tocris.com/distributors

Tel:+1 612 379 2956