Cetrorelix Acetate

Cat. No.: HY-P0009A

CAS No.: 145672-81-7

Molecular Formula: $C_{72}H_{96}ClN_{17}O_{16}$

Molecular Weight: 1491.09

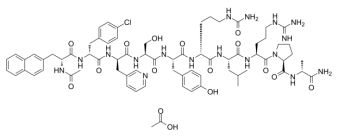
Sequence: N-acetyl-{2-Naph-Ala}-{Cl-Phe}-{3Py-Ala}-Ser-Tyr-{Cit}-Leu-Arg-Pro-Ala-NH2

Sequence Shortening: Ac-{2-Naph-Ala}-{Cl-Phe}-{3Py-Ala}-SY-{Cit}-LRPA-NH2

Target: GnRH Receptor

Pathway: GPCR/G Protein

Storage: Sealed storage, away from moisture and light
Powder -80°C 2 years
-20°C 1 year
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (33.53 mM; Need ultrasonic)
H_2O : 2 mg/mL (1.34 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.6707 mL	3.3533 mL	6.7065 mL
	5 mM	0.1341 mL	0.6707 mL	1.3413 mL
	10 mM	0.0671 mL	0.3353 mL	0.6707 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cetrorelix Acetate (SB-75 acetate) is a potent gonadotropin-releasing hormone (GnRH) receptor antagonist with an IC_{50} of 1.21 nM[1].

IC_{50} & Target

IC50: 1.21 nM GnRH[1].

In Vitro

Cetrorelix Acetate inhibits growth of ES-2 cell line at 1000 ng/ml. Cetrorelix Acetate has comparable antiproliferative effects as GnRH-I agonists indicating that the dichotomy of GnRH-I agonists and antagonists might not apply to the GnRH-I system in cancer cells[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Gen Comp Endocrinol. 2021 Mar 9;113754.

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REFERENCES

[1]. Beckers T et al. Characterization of gonadotropin-releasing hormone analogs based on a sensitive cellular luciferase reporter gene assay. Anal Biochem. 1997 Aug 15;251(1):17-23.

[2]. Gründker C et al. Role of gonadotropin-releasing hormone (GnRH) in ovarian cancer. Reprod Biol Endocrinol. 2003 Oct 7;1:65.

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