Cetrorelix Acetate

Cat. No.:	HY-P0009A				
CAS No.:	145672-81-7				
Molecular Formula:	C ₇₂ H ₉₆ CIN 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	0°C 2 years			
	-20	0°C 1 year			
	* In solvent : -80 and light))°C, 6 months; -20°C, 1 month (sealed storage, away from moisture			

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	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		

BIOLOGICAL ACTIVITY					
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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.

Caution: Product has not been fully validated for medical applications. For research use only.

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