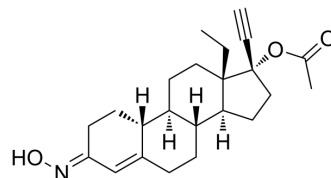


Norgestimate

Cat. No.:	HY-W013172
CAS No.:	35189-28-7
Molecular Formula:	C ₂₃ H ₃₁ NO ₃
Molecular Weight:	369.5
Target:	Progesterone Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (338.29 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.7064 mL	13.5318 mL	27.0636 mL
				5 mM	0.5413 mL	2.7064 mL	5.4127 mL
				10 mM	0.2706 mL	1.3532 mL	2.7064 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (5.63 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.63 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.63 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Norgestimate, a synthetic progesterone analog, is an orally active progestin with highly selective progestational activity and minimal androgenicity. Norgestimate is used for an oral contraceptive ^{[1][2]} . Norgestimate is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vitro	Norgestimate is converted to at least two active metabolites: levonorgestrel 3-oxime (deacetylated norgestimate; norelgestromin) and levonorgestrel ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Stanczyk FZ, et al. All progestins are not created equal. *Steroids*. 2003 Nov;68(10-13):879-90.
- [2]. Phillips A, et al. Preclinical evaluation of norgestimate, a progestin with minimal androgenic activity. *Am J Obstet Gynecol*. 1992 Oct;167(4 Pt 2):1191-6.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA