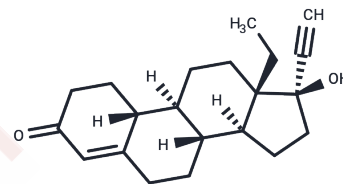


Norgestrel

Chemical Properties

CAS No. :	6533-00-2
Formula:	C ₂₁ H ₂₈ O ₂
Molecular Weight:	312.45
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Norgestrel (WY-3707) is a synthetic progestin commonly used alone or in combination with an estrogen for contraception. Norgestrel suppresses the secretion of luteinizing and follicle-stimulating hormones (LH and FSH), thickens cervical mucus, and slows the transit of ova through the fallopian tubes.
Targets(IC50)	Estrogen/progestogen Receptor, Reactive Oxygen Species, ROS
Kinase Assay	F508del-CFTR maturation: Fischer rat thyroid (FRT) cells stably expressing F508del-CFTR are treated with increasing concentrations of VX-809 for 48 hours. After incubation, cells are harvested in ice-cold D-PBS solution (without calcium and magnesium) and pelleted at 1,000 × g at 4 °C. Cell pellets are lysed in 1% Nonidet P-40, 0.5% sodium deoxycholate, 200 mM NaCl, 10 mM Tris, pH 7.8, and 1 mM EDTA plus protease inhibitor mixture (1:250) for 30 minutes on ice. Lysates are spun for 10 minutes at 10,000 × g at 4 °C to pellet nuclei and insoluble material. Approximately 12 µg total protein is heated in Laemmli buffer with 5% β-mercaptoethanol at 37 °C for 5 minutes and loaded onto a 3% to 8% Tris-acetate gel. The gel is transferred to nitrocellulose and processed for Western blotting by using monoclonal CFTR antibody or polyclonal to GAPDH. Blots are developed by enhanced chemiluminescence. Quantification of the relative amounts of bands C and GAPDH is performed by using NIH ImageJ analysis of scanned films.

Solubility Information

Solubility	DMSO: 6.25 mg/mL (20 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.2 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2005 mL	16.0026 mL	32.0051 mL
5 mM	0.6401 mL	3.2005 mL	6.401 mL
10 mM	0.3201 mL	1.6003 mL	3.2005 mL
50 mM	0.064 mL	0.3201 mL	0.6401 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Maruo T, et al. Contraception. 2007 Jun; 75(6 Suppl):S99-103.

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