Product datasheet

Dienogest, Steroidal progesterone ab141282

Overview

Product name: Dienogest, Steroidal progesterone
Description: Steroidal progesterone
Purity: > 99%
CAS Number: 65928-58-7

Chemical structure

![Chemical structure](image)

Properties

Chemical name: (17α)-17-Hydroxy-3-oxo-19-norpregna-4,9-diene-21-nitrile
Molecular weight: 311.42
Molecular formula: C_{20}H_{25}NO_{2}
PubChem identifier: 68861
Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview: Soluble in DMSO to 100 mM
Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be usable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES: O=C3=C4CC[C@H]2C(CC[C@]1(C)[C@H]2CC[C@]1(O)CC#N)=C4CC3
Source: Synthetic
Functional Studies - Dienogest, Steroidal progesterone (ab141282)

Staining MDM2 in MCF7 cells treated with dienogest (ab141282), by ICC/IF. Decrease in MDM2 expression correlates with increased concentration of dienogest, as described in literature.

The cells were incubated at 37°C for 24 hour in media containing different concentrations of ab141282 (dienogest) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab16895 (5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-mouse polyclonal antibody (ab96879) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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