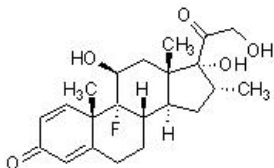


Product datasheet

Dexamethasone, anti-inflammatory glucocorticoid ab120743

[2 References](#) [3 Images](#)

Overview

Product name	Dexamethasone, anti-inflammatory glucocorticoid
Description	Anti-inflammatory glucocorticoid
Purity	> 99%
CAS Number	50-02-2
Chemical structure	

Properties

Chemical name	(11 β ,16 α)-9-Fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione
Molecular weight	392.47
Molecular formula	C ₂₂ H ₂₉ FO ₅
PubChem identifier	5743
Storage instructions	Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 100 mM
Handling	<p>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 useable 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.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>C[C@@H]1C[C@H]2[C@@H]3CCC4=CC(=O)C=C[C@@]4([C@]3([C@H](C[C@@]2([C@]1(C(=O)CO)O)C)O)F)C</chem>

Applications

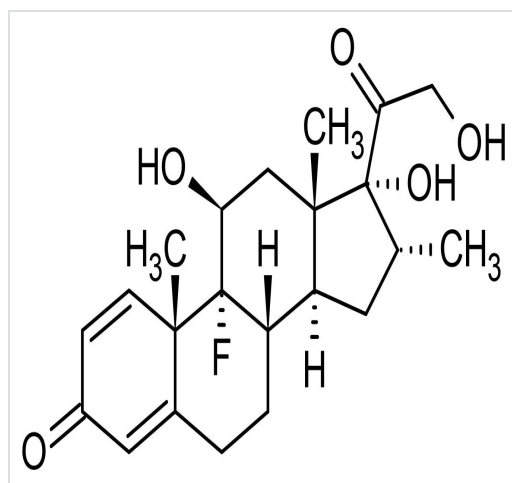
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120743 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

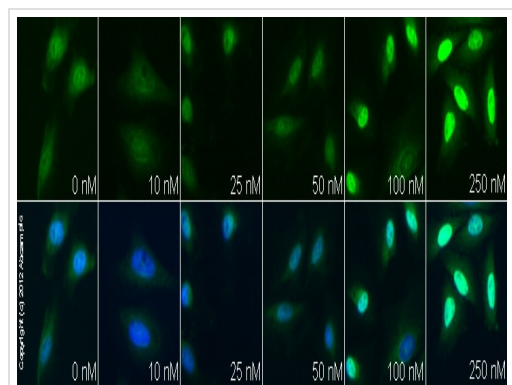
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Dexamethasone, anti-inflammatory glucocorticoid (ab120743)

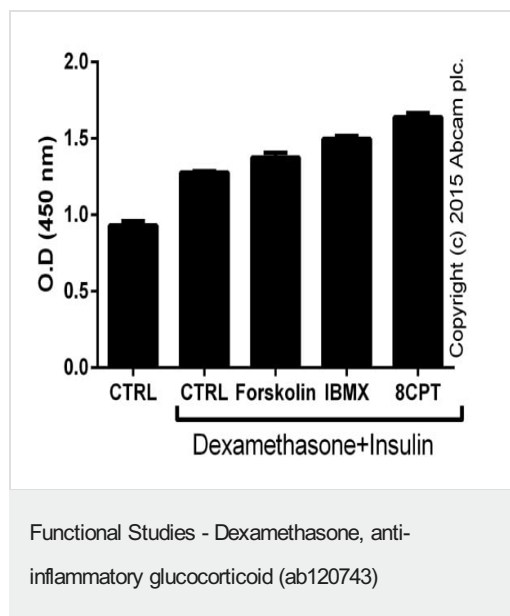
2D chemical structure image of ab120743, Dexamethasone, anti-inflammatory glucocorticoid



Functional Studies - Dexamethasone, anti-inflammatory glucocorticoid (ab120743)

ab75974 staining p57 Kip2 in HeLa cells treated with dexamethasone (ab120743), by ICC/IF. Increase in p57 Kip2 expression correlates with increased concentration of dexamethasone as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120743 (dexamethasone) 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 **ab75974** (5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.



1e7 3T3-L1 cells were treated for 15 minutes with 1 μ M dexamethasone (ab120743) and 1 μ g x mL⁻¹ insulin ([ab123768](#)) with the addition of 50 μ M forskolin ([ab120058](#)), 0.5 mM IBMX ([ab120840](#)) or 0.1 mM 8-CPT-cAMP ([ab120424](#)), extracted according to the protocol. Lysates were diluted 50-fold, and tested in duplicates (+/-SD).

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

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