

Product Datasheet

Dexamethasone (orb1309846)

Catalog Number	orb1309846
Category	Small Molecules
Description	Dexamethasone is a potent synthetic glucocorticoid with anti-inflammatory and immunosuppressive properties, acting as a glucocorticoid receptor agonist. It is widely used in research to model conditions like depression and muscle atrophy in vivo, and to study cytokine modulation and autophagy in cellular experiments. Its mechanisms include inhibiting inflammatory exosome release and suppressing LPS-induced macrophage activation.
Target	Transcription factor
Form/Appearance	powder
Purity	>98%
MW	392.5
Biological Activity	Apoptosis inducing glucocorticoid
Target Areas	Autophagy ADC Cytotoxin Antibiotic Antibacterial IL Receptor Complement System Mitophagy Glucocorticoid Receptor SARS-CoV
Solubility (25°C)	Soluble in DMSO (up to 40 mg/ml).
CAS Number	50-02-2
Formula	C ₂₂ H ₂₉ FO ₅
SMILES	<chem>F[C@@]12[C@]([C@]3([C@](C)(C[C@@H]1O)[C@](C(CO)=O)(O)[C@H](C)C3)[H])(CCC=4[C@]2(C)C=CC(=O)C4)[H]</chem>
Chemical Name	(11β,16α)-9-Fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione

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Storage	RT
Note	For research use only
Expiration Date	12 months from date of receipt.

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