



Meprednisone

Cat. No.:	OB0225WX-2435
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	5 mg; 10 mg; 25 mg; 50 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Meprednisone is a methylated analogue of prednisone that functions as a systemic glucocorticoid.
Synonym	NSC 527579, SCH 4358; 1247-42-3; Betanisona; Betapar; Bitanisona; Meprednisona; Meprednisonum; Lepicortin-beta; Deltisona B; Deltacortene beta; Sch 4358; Betapar (Meprednisone); 16beta-Methylprednisone; 16-beta-Metilprednisone; 16-beta-Methylprednisone; Pregna-1,4-diene-3,11,20-trione, 17,21-dihydroxy-16-methyl-, (16beta)-; SCH-4358; 17,21-Dihydroxy-16beta-methylpregna-1,4-diene-3,11,20-trione; (8S,9S,10R,13S,14S,16S,17R)-17-hydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,9,12,14,15,16-octahydrocyclopenta[a]phenanthrene-3,11-dione; (8S,9S,10R,13S,14S,16S,17R)-17-hydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-7,8,9,10,12,13,14,15,16,17-decahydro-3H-cyclopenta[a]phenanthrene-3,11(6H)-dione; (1R,2S,3aS,3bS,9aR,9bS,11aS)-1-hydroxy-1-(2-hydroxyacetyl)-2,9a,11a-trimethyl-1H,2H,3H,3aH,3bH,4H,5H,7H,9aH,9bH,10H,11H,11aH-cyclopenta[a]phenanthrene-7,10-dione; (16beta)-17,21-dihydroxy-16-methylpregna-1,4-diene-3,11,20-trione
CAS No.	1247-42-3
Compound CID	5284587
Formula	C ₂₂ H ₂₈ O ₅
Formula Weight	372.46

Specification



IUPAC Name	(8S,9S,10R,13S,14S,16S,17R)-17-Hydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,9,12,14,15,16-octahydrocyclopenta[a]phenanthrene-3,11-dione
InChI	InChI=1S/C22H28O5/c1-12-8-16-15-5-4-13-9-14(24)6-7-20(13,2)19(15)17(25)10-21(16,3)22(12,27)18(26)11-23/h6-7,9,12,15-16,19,23,27H,4-5,8,10-11H2,1-3H3/t12-,15-,16-,19+,20-,21-,22-/m0/s1
InChI Key	PIDANAQULIKBQS-RNUIGHNZSA-N
SMILES string	<chem>C[C@H]1C[C@H]2[C@@H]3CCC4=CC(=O)C=C[C@@]4([C@H]3C(=O)C[C@@]2([C@]1(C(=O)CO)O)C)C</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Meprednisone is utilized in pharmacological studies as a methylated derivative of prednisolone to study the enhancement of glucocorticoid activity and its efficacy in treating systemic inflammatory conditions.

Library Information

Target	Glucocorticoid receptor
Pathways	Endocrinology & Hormones
Plate Number	L6700-02
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	75 mg/mL; 201.37 mM
Ethanol Max Solubility	4 mg/mL
ALogP	1.536
HBA_Count	3
HBD_Count	1
Rotatable Bond	2