

Flumethasone

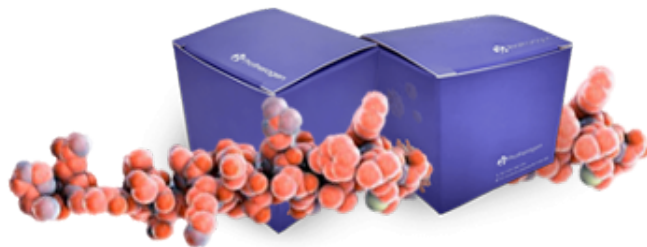
Cat. No.:	OB0225WX-2582
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	50 mg; 100 mg; 200 mg; 500 mg

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

Product Overview

Description	Flumethasone is a glucocorticoid receptor agonist that exerts its biological effect by binding to the receptor and translocating to the nucleus to modulate gene activation and repression.
Synonym	RS-2177, 2135-17-3; Flumetasone; Flucorticin; Flumethason; Anaprime; Methagon; Fluvet; Aniprime; Cortexilar; RS 2177; Flumetasona; Flumetasonum; Flumethasonum; 6alpha-Fluorodexamethasone; 6-alpha-Fluorodexamethasone; 6alpha,9-Difluoro-11beta,17,21-trihydroxy-16alpha-methylpregna-1,4-diene-3,20-dione; 6alpha,9alpha-Difluoro-16alpha-methylprednisolone; (6S,8S,9R,10S,11S,13S,14S,16R,17R)-6,9-difluoro-11,17-dihydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,11,12,14,15,16-octahydrocyclopenta[a]phenanthren-3-one; Fluorodexamethasone; MFCD00056464; (6S,8S,9R,10S,11S,13S,14S,16R,17R)-6,9-difluoro-11,17-dihydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one
CAS No.	2135-17-3
Compound CID	16490
Formula	$C_{22}H_{28}F_2O_5$
Formula Weight	410.45

Specification



IUPAC Name	(6S,8S,9R,10S,11S,13S,14S,16 R,17R)-6,9-Difluoro-11,17-dihydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,11,12,14,15,16-octahydrocyclopenta[a]phenanthren-3-one
InChI	InChI=1S/C22H28F2O5/c1-11-6-13-14-8-16(23)15-7-12(26)4-5-19(15,2)21(14,24)17(27)9-20(13,3)22(11,29)18(28)10-25/h4-5,7,11,13-14,16-17,25,27,29H,6,8-10H2,1-3H3/t1 1-,13+,14+,16+,17+,19+,20+,21+,22+/m1/s1
InChI Key	WXURHACBFYSXBI-GQKYHHCASA-N
SMILES string	<chem>C[C@@H]1C[C@H]2[C@@H]3C[C@@H](C4=CC(=O)C=C[C@@]4([C@]3([C@H](C[C@@]2([C@]1(C(=O)CO)O)C)O)F)C)F</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Flumethasone is applied in pharmacological studies as a potent fluorinated corti costeroid to investigate the suppression of local inflammatory responses and the modulation of gene expression in skin and joint tissues.

Library Information

Target	Glucocorticoid receptor
Pathways	Endocrinology & Hormones
Plate Number	L6700-06
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	82 mg/mL; 199.78 mM
Ethanol Max Solubility	6 mg/mL
ALogP	1.546
HBA_Count	2
HBD_Count	2
Rotatable Bond	2