

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customer-care-usa@m2stage.hellobio.com



DATASHEET

Fluticasone propionate

Product overview

Name	Fluticasone propionate
Cat No	HB1091
Biological action	Agonist
Description	Selective glucocorticoid receptor agonist

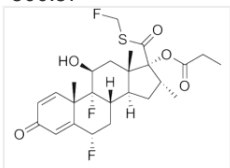
Biological Data

Biological description	Selective glucocorticoid receptor agonist ($K_d = 0.5$ nM). Reduces expression of mast cells, suppresses mast cell degranulation, enhances eosinophil apoptosis and inhibits T cell proliferation. Potentiates K_v1 channel current ($EC_{50} = 37$ nM). Shows anti-inflammatory and anti-allergy actions.
-------------------------------	--

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(6 α ,11 β ,16 α ,17 α)-6,9-Difluoro-11-hydroxy-16-methyl-3-oxo-17-(1-oxopropoxy)androsta-1,4-diene-17-carbothioic acid fluoromethyl ester
Molecular Weight	500.57
Chemical structure	
Molecular Formula	$C_{25}H_{31}F_3O_5S$
CAS Number	80474-14-2
PubChem identifier	444036
SMILES	<chem>O=C1C=C[C@@]2(C)C([C@@H](F)C[C@]3([H])[C@@](F)2[C@@H](O)C[C@@]4(C)[C@]([H])3C[C@@H](C)[C@](C)(SCF=O)4OC(CC)=O)=C1</chem>
InChIKey	WMWTYOKRWGGJOA-CENSZEJFSA-N

References

The anti-inflammatory profile of fluticasone propionate.

Johnson M (1995) Allergy 50(23 Suppl)

PubMedID [7604948](#)

Basic research on virus-induced asthma exacerbation: inhibition of inflammatory chemokine expression by fluticasone propionate.

Matsukura S *et al* (2013) Int Arch Allergy Immunol 161 Suppl 2

PubMedID [23711858](#)

Potentiation of the Kv1 family K(+) channel by cortisone analogues.

Pan Y *et al* (2012) ACS Chem Biol 7(10)

PubMedID [22803826](#)

Enhancement of human eosinophil apoptosis by fluticasone propionate, budesonide, and beclomethasone.

Zhang X *et al* (2000) Eur J Pharmacol 406(3)

PubMedID [11040338](#)
