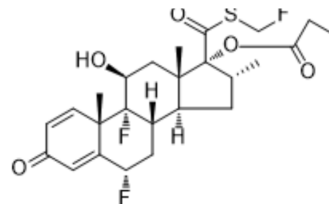


Fluticasone (propionate)

Cat. No.:	HY-B0154		
CAS No.:	80474-14-2		
Molecular Formula:	C ₂₅ H ₃₁ F ₃ O ₅ S		
Molecular Weight:	500.57		
Target:	Glucocorticoid Receptor; Endogenous Metabolite; Enterovirus; ADC Cytotoxin		
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease; Anti-infection; Antibody-drug Conjugate/ADC Related		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (199.77 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9977 mL	9.9886 mL	19.9772 mL
	5 mM	0.3995 mL	1.9977 mL	3.9954 mL
	10 mM	0.1998 mL	0.9989 mL	1.9977 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (4.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fluticasone propionate, a potent topical anti-inflammatory corticosteroid, is a selective glucocorticoid receptor agonist, with an absolute affinity (K_D) of 0.5 nM. Fluticasone propionate shows little or no activity at other steroid receptors. Anti-viral activity^{[1][2]}.

In Vitro

Fluticasone propionate inhibits TNFα-induced E-selectin expression, with an IC₅₀ of 1 nM^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

-
- J Cachexia Sarcopenia Muscle. 2022 Jun 9.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Singanayagam A, et al. Effect of fluticasone propionate on virus-induced airways inflammation and anti-viral immune responses in mice. Lancet. 2015 Feb 26;385 Suppl 1:S88.

[2]. Bryson HM, et al. Intranasal fluticasone propionate. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential in allergic rhinitis. Drugs. 1992;43(5):760-775.

[3]. Johnson M. The anti-inflammatory profile of fluticasone propionate. Allergy. 1995;50(23 Suppl):11-14.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA