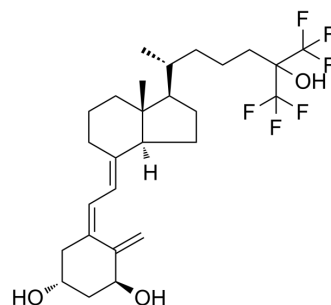


Falecalcitriol

Cat. No.:	HY-32342
CAS No.:	83805-11-2
Molecular Formula:	C ₂₇ H ₃₈ F ₆ O ₃
Molecular Weight:	524.58
Target:	VD/VDR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	4°C, protect from light, stored under nitrogen * The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (190.63 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9063 mL	9.5314 mL	19.0629 mL
	5 mM	0.3813 mL	1.9063 mL	3.8126 mL
	10 mM	0.1906 mL	0.9531 mL	1.9063 mL

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

BIOLOGICAL ACTIVITY

Description

Falecalcitriol(Fulstan; Hornel) is an analog of calcitriol; has a higher potency both in vivo and in vitro systems, and longer duration of action in vivo.

REFERENCES

- [1]. Ito H, Ogata H, Yamamoto M, Takahashi K, Shishido K, Takahashi J, Taguchi S, Kinugasa E. Comparison of oral falecalcitriol and intravenous calcitriol in hemodialysis patients with secondary hyperparathyroidism: a randomized, crossover trial. Clin Nephro
- [2]. Tokunaga M, Tamura M, Kabashima N, Serino R, Shibata T, Matsumoto M, Miyamoto T, Miyazaki M, Furuno Y, Takeuchi M, Abe H, Okazaki M, Otsuji Y. Falecalcitriol for conventional vitamin D therapy-resistant secondary hyperparathyroidism in a continuous ambul
- [3]. Iwao Y, Yamaguchi Y, Fujii K, Toba Y, Asada M, Nagano N, Yamamoto H, Hyoma K, Yamada S, Hirano H, Tone Y, Ohtani H, Saika Y, Fujii R. Long-term suppressive effect of falecalcitriol on parathyroid hormone secretion in secondary hyperparathyroidism in hemo
- [4]. Morii H. Falecalcitriol as a new therapeutic agent for secondary hyperparathyroidismClin Calcium. 2005 Jan;15(1):29-33.
- [5]. Ohtsuka N, Urayama K. Pharmacological action and clinical effects of falecalcitriol, a highly potent derivative of active vitamin D3.Nihon Yakurigaku Zasshi. 2002

Dec;120(6):427-36.

[6]. Jean-Pierre Bégué, Danièle Bonnet-Delpon.Recent advances (1995-2005) in fluorinated pharmaceuticals based on natural products. Journal of Fluorine Chemistry.Volume 127, Issue 8, August 2006, Pages 992-1012

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