Product Data Sheet

Product Name: BXL-628
Cat. No.: GC19432

Chemical Properties

Cas. No.	199798-84-0		
SMILES	C[C@@]12[C@](CC=C2[C@@H](C)C/C=C/C(CC)(O)CC)([H])/C(CCC1)=C/C=C3C[C@@H](O)C[C@H](F)C/3=C		
Formula	$C_{29}H_{43}FO_2$	M.Wt	442.7
Solubility	DMSO: 30 mg/ml,Ethanol: 20 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	BXL-628		

Background

BXL-628 is an analog of vitamin D3 cells via induction of apoptosis in a dose-dependent manner. In vivo, BXL-628 completely inhibits androgen-stimulated prostate overgrowth in a rat model of BPH. It reduces expression of IL-13 and IgE/mast cell-derived protease 1 (MMCP1) and decreases edema and leukocyte infiltration in the bladder wall in a mouse model of allergen-induced interstitial cystitis. BXL-628 also reduces the number of adherent endometrial stromal cells and decreases the total weight of endometrial lesions in a mouse model of endometriosis. Formulations containing BXL-628 are under clinical investigation for the treatment of BPH.

References:
[1].Crescioli, C., Ferruzzi, P., Caporali, A., et al. Inhibition of prostate cell growth by BXL-628, a calcitriol analogue selected for a phase II clinical trial in patients with benign prostate hyperplasia Eur. J. Endocrinol. 150(4), 591-603 (2004).
[2].Benigni, F., Baroni, E., Zecevic, M., et al. Oral treatment with a vitamin D3 analogue (BXL628) has anti-inflammatory effects in rodent model of interstitial cystitis BJU Int. 97(3), 617-624 (2006).

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[3]. Mariani, M., Viganò, P., Gentilini, D., et al. The selective vitamin D receptor agonist, elocalcitol, reduces endometriosis development in a mouse model by inhibiting peritoneal inflammation Hum. Reprod. 27(7), 2010-2019 (2012).

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