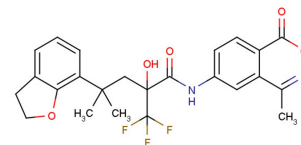


ZK 216348

Chemical Properties

CAS No.: 669073-68-1
Formula: C₂₄H₂₃F₃N₂O₅
Molecular Weight: 476.45
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	ZK 216348 also binds to Progesterone and mineralocorticoid receptors (IC ₅₀ s: 20.4 nM and 79.9 nM, respectively). ZK 216348 is a nonsteroidal selective glucocorticoid receptor agonist (IC ₅₀ : 20.3 nM). ZK 216348 has an anti-inflammatory activity similar to Prednisolone.
Targets(IC ₅₀)	Glucocorticoid receptor: 20.3 nM Progesterone receptor: 20.4 nM mineralocorticoid receptor: 79.9 nM
In vitro	ZK 216348 inhibits TNF- α and IL-12 (IC ₅₀ : 89 nM and 52 nM, respectively) in human peripheral blood mononuclear cells. The participation of an active GR in the antiinflammatory response of ZK 216348 is further investigated in Caco-2 cells, where the TNF- α -induced expression of the proinflammatory cytokine IL-8 is suppressed in the presence of ZK 216348 [1][2].
In vivo	ZK 216348 (1-30 mg/kg; subcutaneous injection; for 24 hours; NMRI mice and Wistar rats) treatment inhibits ear edema in both mice and rats. A markedly superior side-effect profile is found in ZK 216348 with regard to increases in blood glucose, spleen involution, and, to a lesser extent, skin atrophy [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.099 mL	10.494 mL	20.989 mL
5 mM	0.42 mL	2.099 mL	4.198 mL
10 mM	0.21 mL	1.049 mL	2.099 mL
50 mM	0.042 mL	0.21 mL	0.42 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

2. Reuter KC, et al. Selective glucocorticoid receptor agonists for the treatment of inflammatory bowel disease: studies in mice with acute trinitrobenzene sulfonic acid colitis. J Pharmacol Exp Ther. 2012 Apr;341(1):68-80.

Inhibitors · Natural Compounds · Compound Libraries

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