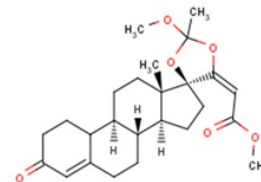


YK11

Chemical Properties

CAS No.:	1370003-76-1
Formula:	C25H34O6
Molecular Weight:	430.53
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	YK11 is an androgen receptor partial agonist that activates androgen receptor transcriptional activity in HEK293 cells overexpressing androgen receptors when used at a concentration of 0.1 μ M, with osteogenic activity.
Targets(IC ₅₀)	Androgen Receptor: None
In vitro	The induction of key myogenic regulatory factors (MRFs), such as myogenic differentiation factor (MyoD), myogenic factor 5 (Myf5) and myogenin, was more significant in the presence of YK11 than in the presence of DHT. YK11 treatment of C2C12 cells, but not DHT, induced the expression of follistatin (Fst), and the YK11-mediated myogenic differentiation was reversed by anti-Fst antibody. Suggest that the induction of Fst is important for the anabolic effect of YK11[1].

Solubility Information

Solubility	DMSO: 64 mg/mL (148.65 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.323 mL	11.614 mL	23.227 mL
5 mM	0.465 mL	2.323 mL	4.645 mL
10 mM	0.232 mL	1.161 mL	2.323 mL
50 mM	0.046 mL	0.232 mL	0.465 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

1. Kanno Y , Ota R , Someya K , et al. Selective Androgen Receptor Modulator, YK11, Regulates Myogenic Differentiation of C2C12 Myoblasts by Follistatin Expression[J]. Biological and Pharmaceutical Bulletin, 2013, 36(9):1460-1465.
2. Yatsu T , Kusakabe T , Kato K , et al. Selective Androgen Receptor Modulator, YK11, Up-Regulates Osteoblastic Proliferation and Differentiation in MC3T3-E1 Cells[J]. Biological and Pharmaceutical Bulletin, 2018, 41(3):394-398.

Inhibitors · Natural Compounds · Compound Libraries

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