Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Pregnenolone

Catalog No: tcsc1970

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:
145-13-1

Formula:
$C_{21}H_{32}O_2$

Pathway:
Autophagy;GPCR/G Protein;Metabolic Enzyme/Protease

Target:
Autophagy;Cannabinoid Receptor;Endogenous Metabolite

Purity / Grade:
>98%

Solubility:
DMSO : 12.5 mg/mL (39.50 mM; Need ultrasonic); H2O :

Alternative Names:
Arthenolone;3β-Hydroxy-5-pregnen-20-one

Observed Molecular Weight:
316.48

Product Description

Pregnenolone acts as a signaling-specific inhibitor of **cannabinoid CB1 receptor**, reduces several effects of tetrahydrocannabinol (THC).

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IC50 & Target: Cannabinoid CB1 receptor[1]

In Vitro: The effect of THC is significantly attenuated when slices are pre-treated with Pregnenolone 100 nM (15.1±1.8 % of inhibition). These effects are likely due to a pre-synaptic action of Pregnenolone. Thus, Pregnenolone blocks the increase in paired-pulse ratio (PPR) induced by THC but does not modify either the amplitude or the decay time of miniature EPSC (mEPSC)[1].

In Vivo: Pregnenolone administration (2-6 mg/kg) blocks THC-induced food-intake in Wistar rats and in C57BL/6N mice, and blunts the memory impairment induced by THC in mice, but it does not modify these behaviors *per se*. Injections of Pregnenolone (2 and 4mg/kg) before each self-administration session reduce the intake of WIN 55,212-2 and reduce the break-point in a progressive ratio schedule[1].