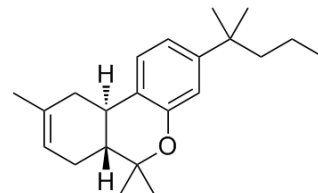


Data Sheet

Product Name:	JWH-133
Cat. No.:	HY-15854
CAS No.:	259869-55-1
Molecular Formula:	C ₂₂ H ₃₂ O
Molecular Weight:	312.49
Target:	Autophagy; Cannabinoid Receptor
Pathway:	Autophagy; GPCR/G Protein
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

JWH 133 is a potent CB2 selective agonist with K_i of 3.4 nM, 200-fold selective over CB1 receptors.

target: CB2

In vitro: JWH-133 inhibits IL-12p40 production and enhances IL-10 release by activated macrophages through a CB2 receptor-mediated pathway. [1], a widely used experimental in vitro model to study mechanisms of toxicity and protection in nigral dopaminergic neurons. JWH-133 (10–40 μ M) induced a concentration-dependent decrease of SH-SY5Y cell viability and proliferation rate. [2]

In vivo: The reference for animal injection is 1.5 mg/kg i.v.[3]

References:

[1]. Correa F et al. Activation of cannabinoid CB2 receptor negatively regulates IL-12p40 production in murine macrophages: role of IL-10 and ERK1/2 kinase signaling. *Br J Pharmacol.* 2005 Jun;145(4):441–8.

[2]. Wojcieszak J et al. JWH-133, a Selective Cannabinoid CB2 Receptor Agonist, Exerts Toxic Effects on Neuroblastoma SH-SY5Y Cells. *J Mol Neurosci.* 2016 Apr;58(4):441–5.

[3]. Baker D et al. Cannabinoids control spasticity and tremor in a multiple sclerosis model. *Nature.* 2000 Mar 2;404(6773):84–7.

Caution: Product has not been fully validated for medical applications. For research use only.

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