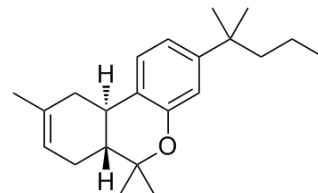


## Data Sheet

<b>Product Name:</b>	JWH-133
<b>Cat. No.:</b>	HY-15854
<b>CAS No.:</b>	259869-55-1
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>32</sub> O
<b>Molecular Weight:</b>	312.49
<b>Target:</b>	Autophagy; Cannabinoid Receptor
<b>Pathway:</b>	Autophagy; GPCR/G Protein
<b>Solubility:</b>	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  $\mu$ 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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