



LKT Laboratories, Inc.

JWH 133

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## Product Information

**Product ID** J889290

**CAS No.** 259869-55-1

**Chemical Name** (6aR,10aR)-6,6,9-trimethyl-3-(2-methylpentan-2-yl)-6a,7,10,10a-tetrahydrobenzo[c]chromene

**Synonym** JWH-133

**Formula** C<sub>22</sub>H<sub>32</sub>O

**Formula Wt.** 312.50

**Melting Point**

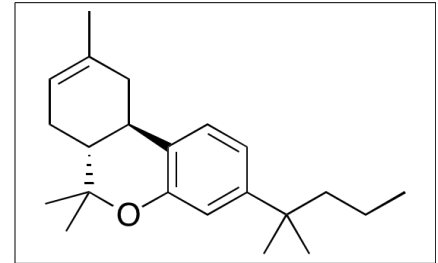
**Purity** ≥95%

**Solubility** ethanol:100mM  
DMSO:50mM with gentle warming

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** JWH-133 is a potent, selective cannabinoid receptor 2 (CB2) agonist. It activates CB2, causing a variety of end results. Recent studies show that JWH-133 plays a role in dopamine signaling, osteolysis, and acute liver failure. JWH-133 activation of CB2 increased the amount of dopamine firing and decreased cocaine use in a mouse self-administration model for chemical dependence. In breast-cancer derived osteolysis, CB2 activation by JWH-133 increased the amount of cell movement. And in acute liver failure LPS-mouse models, JWH-133 increased the amount of macrophages, causing an anti-inflammatory response and increasing survival in mice.



**Bulk quantities available upon request**

Product ID	Size
J889290	1 mg
J889290	5 mg
J889290	25 mg

**References** Sophocleous A, Marino S, Logan JG et al. Bone Cell-autonomous Contribution of Type 2 Cannabinoid Receptor to Breast Cancer-induced Osteolysis. *J Biol. Chem.* 2015 Sep 4;290(36):22049-60. PMID: 26195631.

Tomar S, Zumbun EE, Nagarkatti M, and Nagarkatti PS. Protective role of cannabinoid receptor 2 activation in galactosamine/lipopolysaccharide-induced acute liver failure through regulation of macrophage polarization and microRNAs. *J Pharmacol Exp Ther.* 2015 May;353(2):369-79. PMID: 25749929.

Zhang HY, Gao M, Liu QR et al. Cannabinoid CB2 receptors modulate midbrain dopamine neuronal activity and dopamine-related behavior in mice. *Proc Natl Acad Sci USA.* 2014 Nov 18;111(46):E5007-15. PMID: 25368177.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.