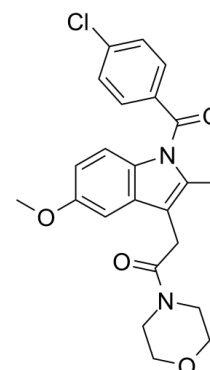


Data Sheet

Product Name:	BML-190
Cat. No.:	CS-0853
CAS No.:	2854-32-2
Molecular Formula:	C ₂₃ H ₂₃ ClN ₂ O ₄
Molecular Weight:	426.89
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : 50 mg/mL (117.13 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

BML-190(IMMA) is a potent and selective CB2 receptor ligand (K_i values are 435 nM and $> 2 \mu\text{M}$ for CB2 and CB1 respectively). IC_{50} Value: 435 nM(K_i CB2) Target:CB2 receptor in vitro: BML-190 increases the accumulation of cAMP, via forskolin-stimulated mechanism in HEK-293 cells. Alternate studies suggest that BML-190 reduces the toxicity of culture supernatants to SH-SY5Y human neuroblastoma cells. Various research suggests that BML-190 is an essential tool in studying the proliferation of neuroblastoma. BML-190 diminishes LPS-induced NO and IL-6 production in a concentration-dependent manner. BML-190 also inhibits LPS-induced PGE2 production and COX-2 induction. in vivo:

References:

- [1]. Zhang, Qiang; Ma, Peng; Cole, Richard B.; Wang, Guangdi In vitro metabolism of indomethacin morpholinylamide (BML-190), an inverse agonist for the peripheral cannabinoid receptor (CB2) in rat liver microsomes. *European Journal of Pharmaceutical Sciences* (2010), 41(1), 163-172.
- [2]. Klegeris, Andis; Bissonnette, Christopher J.; McGeer, Patrick L. Reduction of human monocytic cell neurotoxicity and cytokine secretion by ligands of the cannabinoid-type CB2 receptor. *British Journal of Pharmacology* (2003), 139(4), 775-786.
- [3]. New DC, Wong YH. BML-190 and AM251 act as inverse agonists at the human cannabinoid CB2 receptor: signalling via cAMP and inositol phosphates. *FEBS Lett.* 2003 Feb 11;536(1-3):157-60.

CAIndexNames:

Ethanone, 2-[1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1H-indol-3-yl]-1-(4-morpholinyl)-

SMILES:

CC(N1C(C2=CC=C(C(Cl)=C2)=O)=C(CC(N3CCOCC3)=O)C4=C1C=CC(OC)=C4

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

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