# **PRODUCT** INFORMATION



LY2828360

Item No. 26791

CAS Registry No.:	1231220-79-3	
Formal Name:	8-(2-chlorophenyl)-2-methyl-6-(4-methyl-	
	1-piperazinyl)-9-(tetrahydro-2H-pyran-4-	
	yl)-9H-purine	
MF:	C <sub>22</sub> H <sub>27</sub> ClN <sub>6</sub> O	
FW:	426.9	
Purity:	≥98%	
UV/Vis.:	λ <sub>max</sub> : 219, 284 nm	
Supplied as:	A crystalline solid	
Storage:	-20°C	N
Stability:	≥4 years	
Information represents the product expectitications. Batch exactly analytical results are provided on each cartificate of analy		

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# Laboratory Procedures

LY2828360 is supplied as a crystalline solid. A stock solution may be made by dissolving the LY2828360 in the solvent of choice. LY2828360 is soluble in the organic solvent chloroform, which should be purged with an inert gas, at a concentration of approximately 30 mg/ml.

# Description

LY2828360 is a cannabinoid (CB) receptor 2 agonist ( $K_i = 40.3 \text{ nM}$ ).<sup>1</sup> It selectively activates CB<sub>2</sub> over CB<sub>1</sub> in a GTPγS binding assay (EC<sub>50</sub>s = 20.1 and >100,000 nM, respectively). It reduces differences in hind paw weight bearing between monoiodoacetic acid- and saline-injected knees in a rat model of knee joint-related chronic pain induced by monoiodoacetic acid (MIA) when administered at doses greater than or equal to 0.1 mg/kg. LY2828360 dose-dependently reduces mechanical and cold allodynia induced by paclitaxel (Item No. 10461) in mice and prevents development of morphine tolerance when administered at dose of 3 mg/kg per day for 12 days.<sup>2</sup> It also reduces paclitaxel-induced allodynia in morphine-tolerant mice.

# References

- 1. Hollinshead, S.P., Tidwell, M.W., Palmer, J., et al. Selective cannabinoid receptor type 2 (CB<sub>2</sub>) agonists: Optimization of a series of purines leading to the identification of a clinical candidate for the treatment of osteoarthritic pain. J. Med. Chem. 56(14), 5722-5733 (2013).
- 2. Lin, X., Dhopeshwarkar, A.S., Huibregtse, M., et al. Slowly signaling G protein-biased CB<sub>2</sub> cannabinoid receptor agonist LY2828360 suppresses neuropathic pain with sustained efficacy and attenuates morphine tolerance and dependence. Mol. Pharmacol. 93(2), 49-62 (2018).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

SAFETY DATA This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM