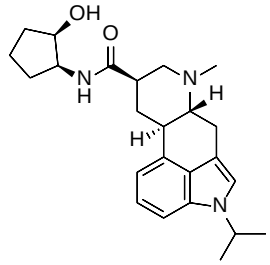
Product data sheet

MedKoo Cat#: 525515 Name: LY 215840 CAS: 137328-52-0 Chemical Formula: $C_{24}H_{33}N_3O_2$ Exact Mass: 395.2573 Molecular Weight: 395.547	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:
LY 215840 is a potent 5-hydroxytryptamine (5-HT)2 receptor antagonist. It has anti-hypertensive and muscle relaxant effects in animal studies.

2. CoA, QC data, SDS, and handling instruction
SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.53 mL	12.64 mL	25.28 mL
5 mM	0.51 mL	2.53 mL	5.06 mL
10 mM	0.25 mL	1.26 mL	2.53 mL
50 mM	0.05 mL	0.25 mL	0.51 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator
Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study
In vitro study

1. Durairaj H, Steury MD, Parameswaran N. Paroxetine differentially modulates LPS-induced TNFα and IL-6 production in mouse macrophages. Int Immunopharmacol. 2015 Apr;25(2):485-92. doi: 10.1016/j.intimp.2015.02.029. Epub 2015 Mar 2. PMID: 25744603; PMCID: PMC4373999.

In vivo study

1. Lenglet S, Louiset E, Delarue C, Vaudry H, Contesse V. Activation of 5-HT(7) receptor in rat glomerulosa cells is associated with an increase in adenylyl cyclase activity and calcium influx through T-type calcium channels. Endocrinology. 2002 May;143(5):1748-60. doi: 10.1210/endo.143.5.8817. PMID: 11956157.
2. Cushing DJ, Zgombick JM, Nelson DL, Cohen ML. LY215840, a high-affinity 5-HT7 receptor ligand, blocks serotonin-induced relaxation in canine coronary artery. J Pharmacol Exp Ther. 1996 Jun;277(3):1560-6. PMID: 8667223.

7. Bioactivity
Biological target:

LY 215840 is a potent 5-hydroxytryptamine (5-HT)2 receptor antagonist.

In vitro activity

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To determine if the effects of paroxetine are mediated via modulation of the 5-HT system, this study treated macrophages with 5-HT or 5-HT receptor antagonist (LY215840) in the presence of LPS and/or paroxetine. 5-HT treatment by itself did not affect LPS-induced cytokine production. LY215840, however, reversed paroxetine's effect on LPS-induced TNFα production but not IL-6.

Reference: Int Immunopharmacol. 2015 Apr;25(2):485-92. https://pubmed.ncbi.nlm.nih.gov/25744603/

In vivo activity

Serotonin (5-HT) stimulates aldosterone secretion from the rat adrenal gland through 5-HT(7) receptors. The aim of the present study was to investigate the transduction mechanisms associated with activation of 5-HT(7) receptors in rat glomerulosa cells. The stimulatory effect of 5-HT on aldosterone secretion and cAMP formation was significantly reduced by the 5-HT(7) receptor antagonist LY 215840.

Reference: Endocrinology. 2002 May;143(5):1748-60. https://pubmed.ncbi.nlm.nih.gov/11956157/

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.