# Product data sheet

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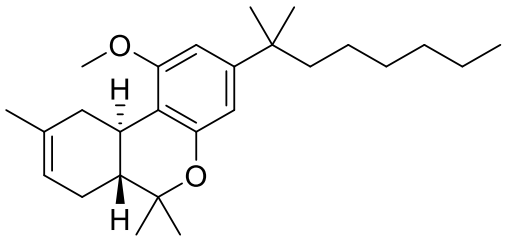
|---|---|
| MedKoo Cat#: 532085<br>Name: L-759,633<br>CAS: 174627-50-0<br>Chemical Formula: $C_{26}H_{40}O_2$<br>Exact Mass: 384.3028<br>Molecular Weight: 384.604 |  |
| Product supplied as: | Powder |
| Purity (by HPLC): | ≥ 98% |
| Shipping conditions | Ambient temperature |
| Storage conditions: | Powder: -20°C 3 years; 4°C 2 years. |
| | In solvent: -80°C 3 months; -20°C 2 weeks. |

**1. Product description:**
L-759,633 is high affinity, selective CB2 receptor agonist (Ki values are 6.4 and 1043 nM for CB2 and CB1 receptors respectively). L-759,633 potently inhibits forskolin-stimulated cAMP production via CB2 receptors expressed in CHO cells (EC50 = 8.1 nM).

**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 |
|---|---|---|
| Ethanol | 20.0 | 52.0 |
| PBS (pH 7.2) | 0.25 | 0.65 |

**4. Stock solution preparation table:**

| Concentration / Solvent Volume / Mass | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.60 mL | 13.00 mL | 26.00 mL |
| 5 mM | 0.52 mL | 2.60 mL | 5.20 mL |
| 10 mM | 0.26 mL | 1.30 mL | 2.60 mL |
| 50 mM | 0.05 mL | 0.26 mL | 0.52 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. Ross RA, Brockie HC, Stevenson LA, Murphy VL, Templeton F, Makriyannis A, Pertwee RG. Agonist-inverse agonist characterization at CB1 and CB2 cannabinoid receptors of L759633, L759656, and AM630. Br J Pharmacol. 1999 Feb;126(3):665-72. doi: 10.1038/sj.bjp.0702351. PMID: 10188977; PMCID: PMC1565857.

In vivo study

TBD

**7. Bioactivity**
Biological target:

High affinity, selective CB2 agonist.

In vitro activity

In CB2-transfected cells, L759633 and L759656 were potent inhibitors of forskolin-stimulated cyclic AMP production, with EC50 values of 8.1 and 3.1 nM respectively and CB1/CB2 EC50 ratios of > 1000 and > 3000 respectively.

Reference: Br J Pharmacol. 1999 Feb;126(3):665-72. https://pubmed.ncbi.nlm.nih.gov/10188977/

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In vivo activity

TBD

*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.*