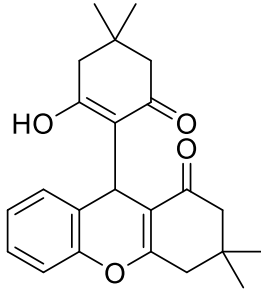


# Product data sheet



MedKoo Cat#: 532050 Name: L-152,804 CAS: 6508-43-6 Chemical Formula: C <sub>23</sub> H <sub>26</sub> O <sub>4</sub> Exact Mass: 366.1831 Molecular Weight: 366.457	
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-152,804 is a potent, selective non-peptide neuropeptide Y Y5 receptor antagonist ( $K_i = 26$  nM for hY5). L-152,804 displays > 300-fold selectivity over hY1, hY2, and hY4 receptors.

## 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
DMSO	80.83	220.56

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.73 mL	13.64 mL	27.29 mL
5 mM	0.55 mL	2.73 mL	5.46 mL
10 mM	0.27 mL	1.36 mL	2.73 mL
50 mM	0.06 mL	0.27 mL	0.55 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

TBD

In vivo study

1. Kanatani A, Ishihara A, Iwaasa H, Nakamura K, Okamoto O, Hidaka M, Ito J, Fukuroda T, MacNeil DJ, Van der Ploeg LH, Ishii Y, Okabe T, Fukami T, Ihara M. L-152,804: orally active and selective neuropeptide Y Y5 receptor antagonist. *Biochem Biophys Res Commun.* 2000 May 27;272(1):169-73. doi: 10.1006/bbrc.2000.2696. PMID: 10872822.

2. Long M, Zhou J, Li D, Zheng L, Xu Z, Zhou S. Long-Term Over-Expression of Neuropeptide Y in Hypothalamic Paraventricular Nucleus Contributes to Adipose Tissue Insulin Resistance Partly via the Y5 Receptor. *PLoS One.* 2015 May 18;10(5):e0126714. doi: 10.1371/journal.pone.0126714. PMID: 25993471; PMCID: PMC4436377.

## 7. Bioactivity

Biological target:

L 152804 is an orally active and selective neuropeptide Y Y5 receptor (NPY5-R) antagonist, with a  $K_i$  of 26 nM for hY5.

In vitro activity

TBD

# Product data sheet



## In vivo activity

---

Intracerebroventricular (i.c.v.) (30 microg) or oral (10 mg/kg) administration of L-152,804 significantly inhibited food intake evoked by i.c.v.-injected bovine pancreatic peptide (bPP, 5 microg; a moderately selective Y4, Y5 agonist) in satiated SD rats.

Reference: Biochem Biophys Res Commun. 2000 May 27;272(1):169-73. <https://pubmed.ncbi.nlm.nih.gov/10872822/>

*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.*