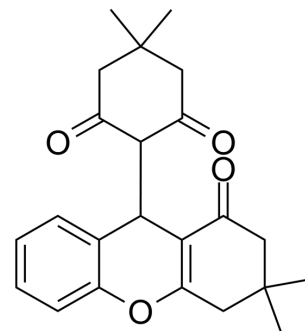


L 152804

Cat. No.:	HY-107734		
CAS No.:	6508-43-6		
Molecular Formula:	C ₂₃ H ₂₆ O ₄		
Molecular Weight:	366		
Target:	Neuropeptide Y Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (341.53 mM)
 H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.7322 mL	13.6612 mL	27.3224 mL
	5 mM	0.5464 mL	2.7322 mL	5.4645 mL
	10 mM	0.2732 mL	1.3661 mL	2.7322 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

L 152804 is an orally active and selective neuropeptide Y₅ receptor (NPY₅-R) antagonist, with a K_i of 26 nM for hY₅. L 152804 causes weight loss in diet-induced obese mice by modulating food intake and energy expenditure^{[1][2]}.

IC₅₀ & Target

K_i: 26 nM (NPY₅-R)^[1].

In Vitro

L 152804 displays > 300-fold selectivity over hY1, hY2, and hY4 receptors^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kanatani A, et al. L-152,804: orally active and selective neuropeptide Y Y5 receptor antagonist. *Biochem Biophys Res Commun*. 2000 May 27;272(1):169-73.

[2]. Mashiko S, et al. A pair-feeding study reveals that a Y5 antagonist causes weight loss in diet-induced obese mice by modulating food intake and energy expenditure. *Mol Pharmacol*. 2007 Feb;71(2):602-8. Epub 2006 Nov 14.

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

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