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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **L-152,804** **Catalog No.: 1382** **Batch No.: 1**

CAS Number: 6508-43-6

IUPAC Name: 5,5-Dimethyl-2-(2,3,4,9-tetrahydro-3,3-dimethyl-1oxo-1*H*-xanthen-9-yl)-1,3-cyclohexanedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{26}O_4$

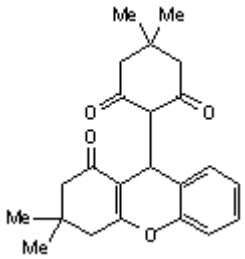
Batch Molecular Weight: 366.46

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.61 (Ethyl acetate:Petroleum ether [1:3])

Melting Point: At 209°C(dec)

HPLC: Shows >99.8% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.39	7.15	
Found	75.45	7.23	

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Description:

Potent, selective non-peptide neuropeptide Y Y_5 receptor antagonist (K_i = 26 nM for hY_5). Displays > 300-fold selectivity over hY_1, hY_2, and hY_4 receptors. Causes weight loss in diet-induced obese mice by modulating food intake and energy expenditure. Centrally active upon oral administration in vivo.

Physical and Chemical Properties:

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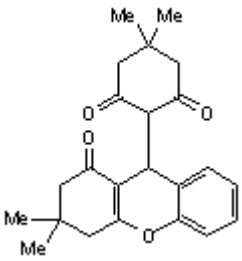
Batch Molecular Weight: 366.46

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kanatani *et al* (2000) L-152,804: orally active and selective neuropeptide Y Y_5 receptor antagonist. Biochem.Biophys.Res.Commun. ***272*** 169. PMID: 10872822.

Schroeder *et al* (2005) The neuropeptide-Y Y5 receptor antagonist L-152,804 decreases alcohol self-administration in inbred alcohol-preferring (iP) rats. Alcohol ***36*** 179. PMID: 16377459.

Mashiko *et al* (2007) A pair-feeding study reveals that a Y_5 antagonist causes weight loss in diet-induced obese mice by modulating food intake and energy expenditure. Mol.Pharmacol. ***71*** 602. PMID: 17105869.