

Certificate of Analysis

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Product Name: ML 233

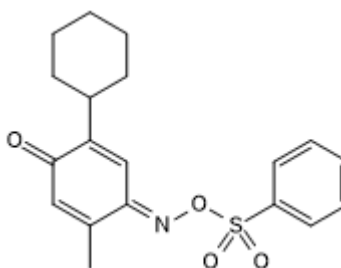
Catalog No.: 5966

Batch No.: 1

IUPAC Name: (E)-4-Methyl-5-(((phenylsulfonyl)oxy)imino)-[1,1'-bi(cyclohexane)]-3,6-dien-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₁ NO ₄ S
Batch Molecular Weight:	359.44
Physical Appearance:	Yellow solid
Solubility:	DMSO to 50 mM ethanol to 10 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.38 (Ethyl acetate:Petroleum ether [1:3])
HPLC:	Shows >99.8% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	63.49	5.89	3.89
Found	63.37	5.74	3.77

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Non-peptide apelin receptor agonist ($EC_{50} = 3.7 \mu\text{M}$); exhibits >21-fold selectivity over the closely related angiotensin 1 receptor ($EC_{50} = >79 \mu\text{M}$).

Physical and Chemical Properties:

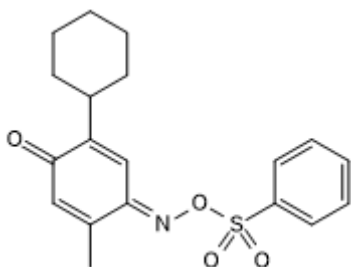
Batch Molecular Formula: $C_{19}H_{21}NO_4S$

Batch Molecular Weight: 359.44

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45\text{-}60^{\circ}\text{C}$ 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:

Yang et al (2015) Apelin, Elabela/Toddler, and biased agonists as novel therapeutic agents in the cardiovascular system. Trends Pharmacol Sci. **36** 560. PMID: 26143239.

Khan et al (2011) Functional agonists of the apelin (APJ) receptor. Probe Reports from the NIH Molecular Libraries Program. PMID: 22834038.

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