

**Product Name:** ML 233

**Catalog No.:** 5966

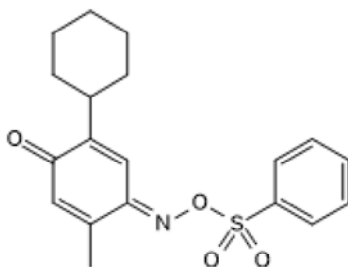
**Batch No.:** 1

CAS Number: 2080311-92-6

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<sub>19</sub>H<sub>21</sub>NO<sub>4</sub>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<sub>f</sub> = 0.38 (Ethyl acetate:Petroleum ether [1:3])  
**HPLC:** Shows >99.8% purity  
<sup>1</sup>H 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:**

ML 233 is a 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:**

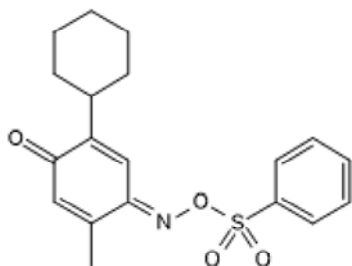
Batch Molecular Formula:  $C_{19}H_{27}NO_4S$

Batch Molecular Weight: 359.44

Physical Appearance: Yellow solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}\text{C}$

**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  $45-60^{\circ}\text{C}$  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  $-20^{\circ}\text{C}$  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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