

Product Name: MS 15203

Catalog No.: 6299

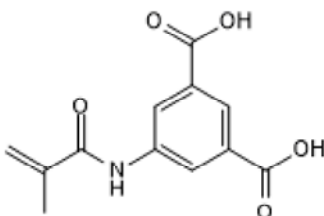
Batch No.: 1

CAS Number: 73912-52-4

IUPAC Name: 5-[(2-Methyl-1-oxo-2-propen-1-yl)amino]-1,3-benzenedicarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₁NO₅
Batch Molecular Weight: 249.22
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.83	4.45	5.62
Found	57.53	4.44	5.59

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

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Description:

MS 15203 is a potent and selective GPR171 partial agonist (EC₅₀ = 90 nM; 28% inhibition of Forskolin activated adenylyl cyclase activity in rat hypothalamic membranes). Exhibits minimal binding to a panel of ~70 GPCRs and 10 other receptors (<22% of radioligand displaced from the target receptors). Increases neuronal activity in the paraventricular nucleus. Increases food intake and body weight in mice.

Physical and Chemical Properties:

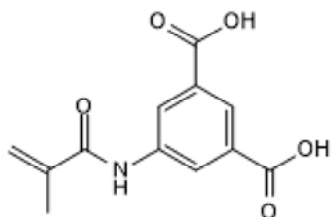
Batch Molecular Formula: C₁₂H₁₁NO₅

Batch Molecular Weight: 249.22

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Wardman et al (2016) Identification of a small-molecule ligand that activates the neuropeptide receptor GPR171 and increases food intake *Sci.Signal.* **9**. PMID: 27245612.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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°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.

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