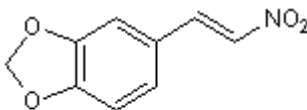


Product Name: MNS
CAS Number: 1485-00-3
IUPAC Name: 3,4-Methylenedioxy-β-nitrostyrene

Catalog No.: 2877 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₇NO₄
Batch Molecular Weight: 193.16
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 5 mM
Storage: Store at +4°C
Batch Molecular Structure:



C₉H₇NO₄
 Exact Mass: 193.04
 Mol. Wt.: 193.16

2. ANALYTICAL DATA

Melting Point: At 161°C
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.96	3.65	7.25
Found	55.98	3.61	7.19

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

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CAS Number: 1485-00-3
IUPAC Name: 3,4-Methylenedioxy-β-nitrostyrene

Catalog No.: 2877 **Batch No.:** 1

Description:

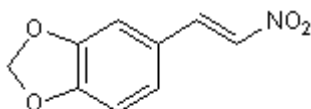
Selective inhibitor of Src and Syk tyrosine kinases. Displays antiaggregative activity via inhibition of GPIIb/IIIa activation (IC_{50} = 12.7 μM for thrombin-induced platelet aggregation). Exhibits no effects on Ca²⁺-dependent enzymes, PKC or arachidonic acid metabolism.

Physical and Chemical Properties:

Batch Molecular Formula: C₉H₇NO₄
Batch Molecular Weight: 193.16
Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



C₉H₇NO₄
Exact Mass: 193.04
Mol. Wt.: 193.16

References:

Wang et al (2006) Prevention of platelet glycoprotein IIb/IIIa activation by 3,4-methylenedioxy-β-nitrostyrene, a novel tyrosine kinase inhibitor. *Mol.Pharmacol.* **70** 1380. PMID: 16837624.

Wang et al (2007) Synthesis and pharmacological evaluation of novel γ-nitrostyrene derivatives as tyrosine kinase inhibitors with potent antiplatelet activity. *Biochem.Pharmacol.* **74** 601. PMID: 17601492.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 5 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.

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