

Certificate of Analysis

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Product Name: **BMY 45778**

Catalog No.: 1442

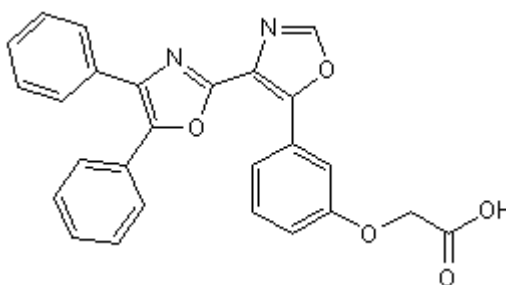
Batch No.: 2

CAS Number: 152575-66-1

IUPAC Name: [3-(4,5-Diphenyl[2,4'-bioxazol]-5'-yl)phenoxy]acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₁₈N₂O₅
Batch Molecular Weight: 438.44
Physical Appearance: Off-white solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.59 (Dichloromethane:Methanol [2:1])
Melting Point: Between 230 - 232°C
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.23	4.14	6.39
Found	70.86	4.14	6.33

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

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Description:

Non-prostanoid prostacyclin mimetic that acts as a partial agonist at IP₁ prostacyclin receptors. Potently inhibits platelet aggregation in vitro (IC₅₀ = 27-35 nM).

Physical and Chemical Properties:

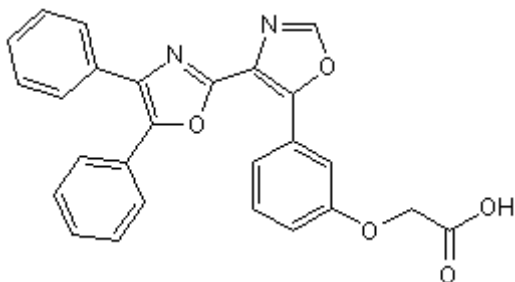
Batch Molecular Formula: C₂₆H₁₈N₂O₅

Batch Molecular Weight: 438.44

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Meanwell et al (1993) Nonprostanoid prostacyclin mimetics. 5. Structure-activity relationships associated with [3-[4-(4,5-diphenyl-2-oxazolyl)-5-oxazolyl]phenoxy]acetic acid. **36** 3884. PMID: 7504734.

Seiler et al (1997) [3-[4-(4,5-Diphenyl-2-oxazolyl)-5-oxazolyl]phenoxy]acetic acid (BMY 45778) is a potent non-prostanoid prostacyclin partial agonist: effects on platelet aggregation, adenylyl cyclase, cAMP levels, protein kinase, and iloprost binding. Prostaglandins **53** 21. PMID: 9068064.

Rudd et al (2000) Non-prostanoid prostacyclin mimetics as neuronal stimulants in the rat: comparison of vagus nerve and NANC innervation of the colon. Br.J.Pharmacol. **129** 782. PMID: 10683203.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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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