

Product Name: Ambrisentan

Catalog No.: 5828

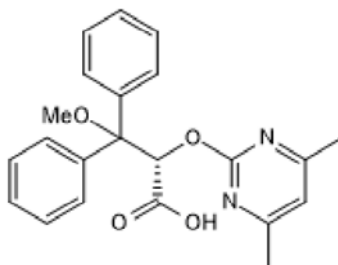
Batch No.: 2

CAS Number: 177036-94-1

IUPAC Name: (αS)-α-[4,6-Dimethyl-2-pyrimidinyl]oxy]-β-methoxy-β-phenylbenzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₂N₂O₄
Batch Molecular Weight: 378.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +173.6 (Concentration = 0.5, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.83	5.86	7.4
Found	69.89	5.85	7.42

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

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Description:

Selective endothelin receptor ET_A antagonist. Displays approximately 200-fold selectivity for ET_A over ET_B (K_i values are 1 nM and 195 nM for respectively). Prevents endothelin-induced sudden death in rats.

Physical and Chemical Properties:

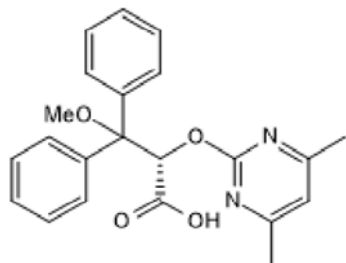
Batch Molecular Formula: C₂₂H₂₂N₂O₄

Batch Molecular Weight: 378.42

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 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.

References:

Vatter & Seifert (2006) Ambrisentan, a non-peptide endothelin receptor antagonist. *Cardiovasc. Drug Rev.* **24** 63. PMID: 16939634.

Riechers et al (1996) Discovery and optimization of a novel class of orally active nonpeptidic endothelin-A receptor antagonists. *J. Med. Chem.* **39** 2123. PMID: 8667356.

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