

**Product Name:** Eprosartan mesylate

**Catalog No.:** 4696

**Batch No.:** 1

CAS Number: 144143-96-4

IUPAC Name: (*αE*)-*α*-[[2-Butyl-1-[(4-carboxyphenyl)methyl]-1*H*-imidazol-5-yl]methylene]-2-thiophenepropanoic acid methanesulfonate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>S·CH<sub>3</sub>SO<sub>3</sub>H

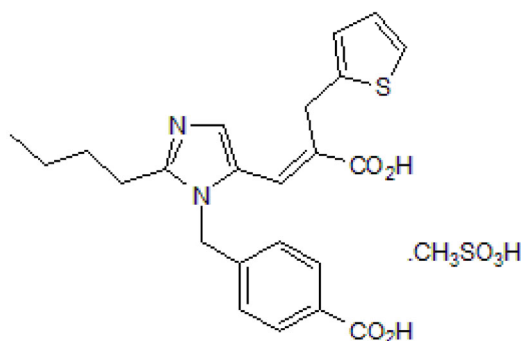
**Batch Molecular Weight:** 520.62

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 20 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	55.36	5.42	5.38
Found	55.42	5.39	5.39

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

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**Description:**

Potent angiotensin II receptor 1 (AT<sub>1</sub>) antagonist (IC<sub>50</sub> values are 1.5, 1.7, 3.9 and 9.2 nM at rat mesenteric artery, human liver membrane, human adrenal cortical membrane and rat adrenal cortical membrane respectively). Displays no effect on vasopressin or CGRP binding, or angiotensin-converting enzyme (ACE) activity. Inhibits the angiotensin II-induced pressor response in normotensive rats.

**Physical and Chemical Properties:**

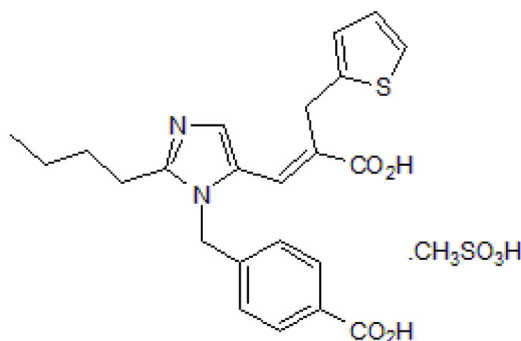
Batch Molecular Formula: C<sub>23</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>S·CH<sub>3</sub>SO<sub>3</sub>H

Batch Molecular Weight: 520.62

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Oh et al** (2011) Angiotensin II inhibits Ins binding to endothelial cells. *Diabetes Metab.J.* **35** 243. PMID: 21785744.

**Edwards et al** (1992) Pharmacological characterization of the nonpeptide angiotensin II receptor antagonist, SK&F 108566. *J.Pharmacol.Exp.Ther.* **260** 175. PMID: 1309870.

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