Certificate of Analysis

Print Date: Mar 10th 2017

Batch No.: 1

Catalog No.: 6232

Product Name: Bosentan

a **biotechne** brand

CAS Number: IUPAC Name: 147536-97-8

4-(1,1-Dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)[2,2'-bipyrimidin]-4-yl]benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure: $C_{27}H_{29}N_5O_6S.H_2O$ 569.63 White solid DMSO to 100 mM ethanol to 50 mM

Store at +4°C

Found

OH N ŇН $^{\circ}$

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.2% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 56.93 5.49 12.29

5.47

12.34

56.91

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

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TOCRIS a biotechne brand

Batch No.: 1

www.tocris.com

Product Name: Bosentan

CAS Number: IUPAC Name:

4-(1,1-Dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)[2,2'-bipyrimidin]-4-yl]benzenesulfonamide

Description:

High affinity dual ET_A and ET_B receptor antagonist (K_i values are 4.7 and 95 nM for ET_A and ET_B , respectively). Inhibits ET-1 induced contraction of isolated rat aorta and sarafotoxin S6C-induced contraction of rat trachea in vitro. Orally bioavailable.

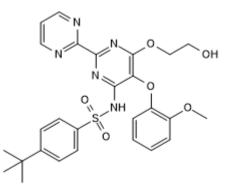
147536-97-8

Physical and Chemical Properties:

Batch Molecular Formula: $C_{27}H_{29}N_5O_6S.H_2O$ Batch Molecular Weight: 569.63 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: DMSO to 100 mM ethanol 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).

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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:

Clozel *et al* (1994) Pharmacological characterization of bosentan, a new potent orally active nonpeptide endothelin receptor antagonist. J.Pharmacol.Exp.Ther. **270** 228. PMID: 8035319.

Gardiner *et al* (1994) Effects of bosentan (Ro 47-0203), an ET_{A^-} , ET_B^- receptor antagonist, on regional haemodynamic responses to endothelins in conscious rats. Br.J.Pharmacol. *112* 823. PMID: 7921608.

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