

Certificate of Analysis

Print Date: Oct 27th 2017

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Product Name: IRL-2500 Catalog No.: 1838 Batch No.: 2

CAS Number: 169545-27-1

IUPAC Name: N-3-[1,1'-Biphenyl]-4-yl-N-(3,5-dimethylbenzoyl)-N-methyl-D-alanyl-L-tryptophan

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{36}H_{35}N_3O_4.1/4H_2O$

Batch Molecular Weight: 578.19

Physical Appearance: White crystalline solid

Solubility: 1eq. NaOH to 75 mM with gentle warming

Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: R_f = 0.85 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point:

HPLC:

Shows >99.9% purity

HNMR:

Consistent with structure

Consistent with structure

Optical Rotation: $[\alpha]_D = +3$ (Concentration = 1, Solvent = Ethanol)

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 74.78 6.19 7.27 Found 74.77 6.15 7.26

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

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Product Information

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IUPAC Name: N-3-[1,1'-Biphenyl]-4-yl-N-(3,5-dimethylbenzoyl)-N-methyl-D-alanyl-L-tryptophan

Description:

Potent endothelin receptor antagonist; shows some selectivity for ET_B receptors (IC $_{50}$ values are 1.3 and 94 nM for ET_B and ET_A receptors respectively). Inhibits ET_B receptor-mediated blood pressure increase and renal vascular resistance in rats in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₆H₃₅N₃O₄.1/4H₂O

Batch Molecular Weight: 578.19

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:

1eq. NaOH to 75 mM with gentle warming

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:

Leung *et al* (2002) Use of A-192621 and IRL-2500 to unmask the mesenteric and renal vasodilator role of endothelin ET_B receptors. J.Cardiovasc.Pharmacol. *39* 533. PMID: 11904527.

Balwierczak *et al* (1995) Characterization of a potent and selective endothelin-B receptor antagonist, IRL 2500. J.Cardiovasc.Pharmacol. **26** S393. PMID: 8587424.

Webb *et al* (1995) Effects of the ET_B-selective antagonist IRL 2500 in conscious spontaneously hypertensive and Wistar-Kyoto rats. J.Cardiovasc.Pharmacol. **26** S389. PMID: 8587423.

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