

Product Name: L-748,337

Catalog No.: 2760

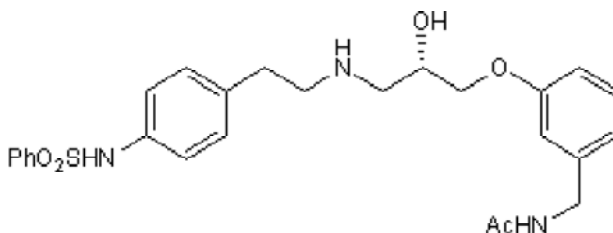
Batch No.: 5

CAS Number: 244192-94-7

IUPAC Name: N-[[3-[(2S)-2-Hydroxy-3-[[2-[4-[(phenylsulfonyl)amino]phenyl]ethyl]amino]propoxy]phenyl]methyl]-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₁N₃O₅S
Batch Molecular Weight: 497.61
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 10 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -5.2 (Concentration = 1, Solvent = Ethanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.76	6.28	8.44
Found	62.88	6.34	8.41

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

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Description:

L-748,337 is a competitive β_3 -adrenoceptor antagonist that displays selectivity over β_1 and β_2 receptors (K_i values are 4.0, 204 and 390 nM for β_3 -, β_2 - and β_1 -adrenoceptors respectively). Inhibits cAMP accumulation in response to Isoproterenol (IC_{50} = 6 nM). Reduces iNOS expression, attenuates nitric oxide-induced cell proliferation and induces apoptosis in a melanoma cell line.

Physical and Chemical Properties:

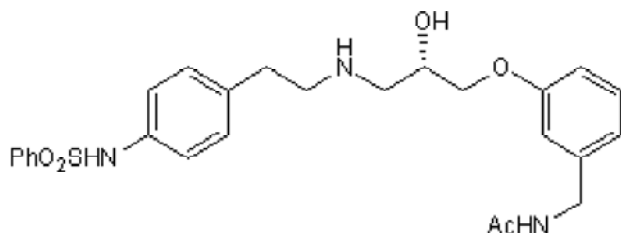
Batch Molecular Formula: $C_{26}H_{31}N_3O_5S$

Batch Molecular Weight: 497.61

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Dal Monte et al (2014) β_3 -adrenergic receptor activity modulates melanoma cell proliferation and survival through nitric oxide signaling. *Naunyn Schmiedebergs Arch.Pharmacol.* **387** 533. PMID: 24599317.

Neidhold et al (2007) The function of α - and β -adrenoceptors of the saphenous artery in caveolin-1 knockout and wild-type mice. *Br.J.Pharmacol.* **150** 261. PMID: 17179950.

Candelore et al (1999) Potent and selective human β_3 -adrenergic receptor antagonist. *J.Pharmacol.Exp.Ther.* **290** 649. PMID: 10411574.

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