

**Product Name:** L-748,337

**Catalog No.:** 2760

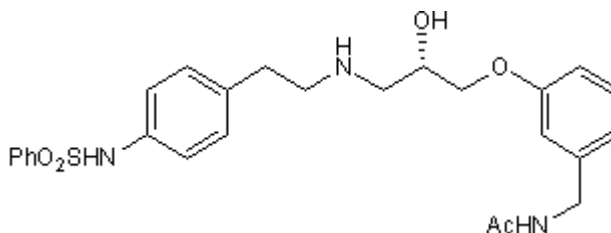
**Batch No.:** 3

CAS Number: 244192-94-7

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>31</sub>N<sub>3</sub>O<sub>5</sub>S  
**Batch Molecular Weight:** 497.61  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 25 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.26 (Ethyl acetate:Methanol:Ammonia soln. [79:20:1])  
**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -5.9 (Concentration = 1, Solvent = Ethanol)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.76	6.28	8.44
Found	62.65	6.35	8.42

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

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**Description:**

Competitive  $\beta_3$ -adrenoceptor antagonist that displays selectivity over  $\beta_1$  and  $\beta_2$  receptors ( $K_i$  values are 4.0, 204 and 390 nM for  $\beta_3$ -,  $\beta_2$ - and  $\beta_1$ -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:**

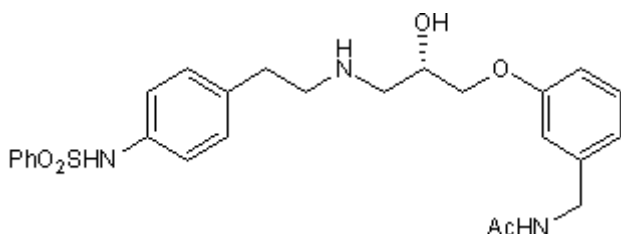
Batch Molecular Formula: C<sub>26</sub>H<sub>31</sub>N<sub>3</sub>O<sub>5</sub>S

Batch Molecular Weight: 497.61

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 25 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:**

**Candelore et al** (1999) Potent and selective human  $\beta_3$ -adrenergic receptor antagonist. *J.Pharmacol.Exp.Ther.* **290** 649. PMID: 10411574.

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

**Dal Monte et al** (2014)  $\beta_3$ -adrenergic receptor activity modulates melanoma cell proliferation and survival through nitric oxide signaling. *Naunyn Schmiedebergs Arch.Pharmacol.* **387** 533. PMID: 24599317.

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