

**Product Name:** L-755,507

**Catalog No.:** 2197

**Batch No.:** 3

CAS Number: 159182-43-1

IUPAC Name: 4-[[[(Hexylamino)carbonyl]amino]-N-[4-[2-[[[(2S)-2-hydroxy-3-(4-hydroxyphenoxy)propyl]amino]ethyl]phenyl]-benzenesulfonamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>30</sub>H<sub>40</sub>N<sub>4</sub>O<sub>6</sub>S.½H<sub>2</sub>O

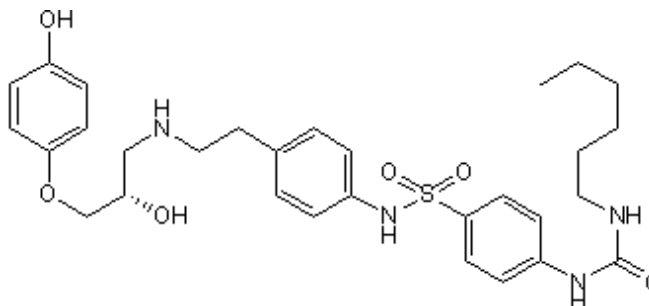
**Batch Molecular Weight:** 593.74

**Physical Appearance:** Off-white solid

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

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.13 (Dichloromethane / 2M Ammonia in Methanol 9:1)

**HPLC:** Shows 98.7% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.69	6.96	9.44
Found	60.63	6.88	9.43

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

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**Description:**

Potent  $\beta_3$ -adrenergic receptor partial agonist > 1000-fold selective over  $\beta_1$ - and  $\beta_2$ -adrenoceptors ( $EC_{50}$  values are 0.43, 580 and > 10000 nM for activation of cloned human  $\beta_3$ -,  $\beta_1$ - and  $\beta_2$ -adrenoceptors respectively). Stimulates lipolysis in rhesus adipocytes in vitro ( $EC_{50}$  = 3.9 nM). Enhances CRISPR-mediated homology-directed repair (HDR) efficiency 2-3-fold for large fragments and ~9-fold for point mutations, in human induced pluripotent stem cells (iPSCs).

**Physical and Chemical Properties:**

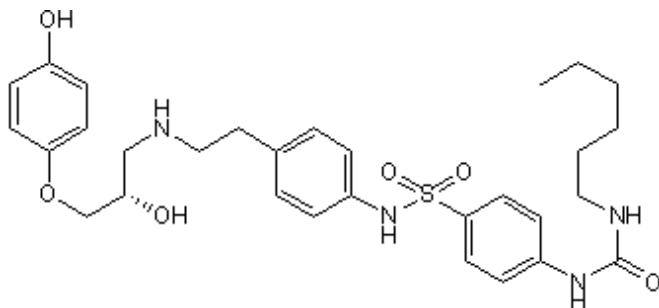
Batch Molecular Formula: C<sub>30</sub>H<sub>40</sub>N<sub>4</sub>O<sub>6</sub>S. ½H<sub>2</sub>O

Batch Molecular Weight: 593.74

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Yu et al** (2015) Small molecules enhance CRISPR genome editing in pluripotent stem cells. *Cell Stem Cell* **16** 142. PMID: 25658371.

**Fisher et al** (1998) A selective human  $\beta_3$  adrenergic receptor agonist increases metabolic rate in rhesus monkeys. *J.Clin.Invest.* **101** 2387. PMID: 9616210.

**Parmee et al** (1998) Discovery of L-755,507: a subnanomolar human  $\beta_3$  adrenergic receptor agonist. *Bioorg.Med.Chem.Lett.* **8** 1107. PMID: 9871717.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 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.

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