

Product Name: Salmeterol xinafoate

Catalog No.: 4712

Batch No.: 1

CAS Number: 94749-08-3

IUPAC Name: 4-Hydroxy- α 1-[[[6-(4-phenylbutoxy)hexyl]amino]methyl]-1,3-benzenedimethanol 1-hydroxy-2-naphthalenecarboxylic acid salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{37}NO_4 \cdot C_{11}H_8O_3$

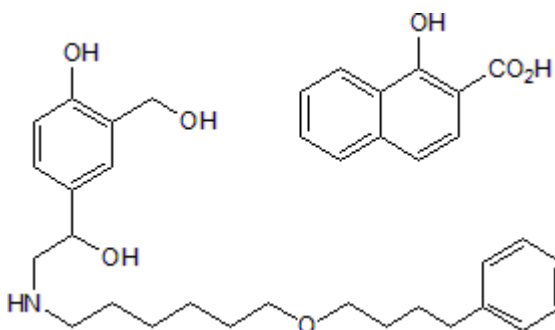
Batch Molecular Weight: 603.75

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.62	7.51	2.32
Found	71.28	6.95	2.43

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Description:

Long-acting β_2 adrenergic receptor agonist. Inhibits the release of histamine, leukotrienes and prostaglandin D₂, and blocks GM-CSF production from human cultured mast cells. Exhibits efficacious bronchodilatory activity in patients with asthma or chronic obstructive pulmonary disease (COPD).

Physical and Chemical Properties:

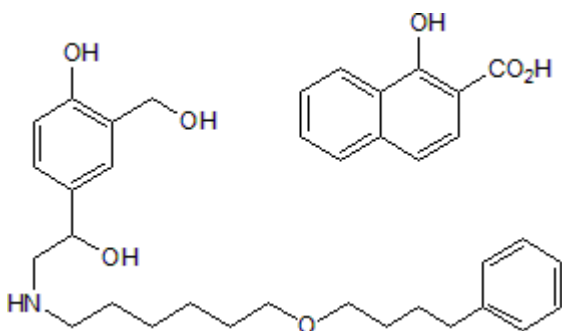
Batch Molecular Formula: C₂₅H₃₇NO₄·C₁₁H₈O₃

Batch Molecular Weight: 603.75

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Roberts et al (1999) The long-acting beta2-agonist salmeterol xinafoate: effects on airway inflammation in asthma. *Eur.Respir.J.* **14** 275. PMID: 10515401.

Rennard et al (2001) Use of a long-acting inhaled beta2-adrenergic agonist, salmeterol xinafoate, in patients with chronic obstructive pulmonary disease. *Am.J.Respir.Crit.Care Med.* **163** 1087. PMID: 11316640.

Akabane et al (2006) Effects of salmeterol xinafoate and fluticasone propionate on immunological activation of human cultured mast cells. *Allergol.Int.* **55** 387. PMID: 17130681.

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