

Certificate of Analysis

Product Name: Arformoterol tartrate

Catalog No.: 6219

Batch No.: 1

CAS Number: 200815-49-2

IUPAC Name: *N*-[2-Hydroxy-5-[(1*R*)-1-hydroxy-2-[[[(1*R*)-2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]formamide L-tartrate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₄N₂O₄·C₄H₆O₆

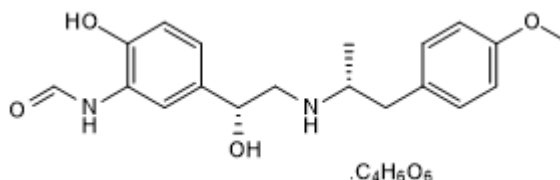
Batch Molecular Weight: 494.49

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
water to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -28 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.86	6.12	5.67
Found	55.86	6.16	5.64

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Description:

Long-acting β_2 adrenergic agonist (LABA). Bronchodilator.

Physical and Chemical Properties:

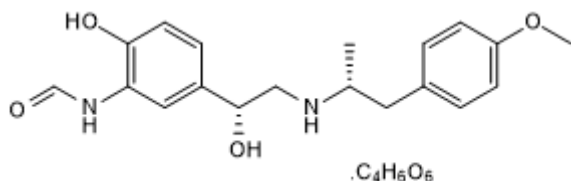
Batch Molecular Formula: $C_{19}H_{24}N_2O_4 \cdot C_4H_6O_6$

Batch Molecular Weight: 494.49

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
water 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:

Op't Holt *et al* (2007) Inhaled beta agonists. *Respir.Care* **52** 820. PMID: 17594727.

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