

Certificate of Analysis

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Product Name: Ractopamine hydrochloride

Catalog No.: 5252

Batch No.: 1

CAS Number: 90274-24-1

EC Number: 415-170-5

IUPAC Name: 4-Hydroxy-α-[[[3-(4-hydroxyphenyl)-1-methylpropyl]amino]methyl]benzenemethanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₃NO₃.HCl.¾H₂O

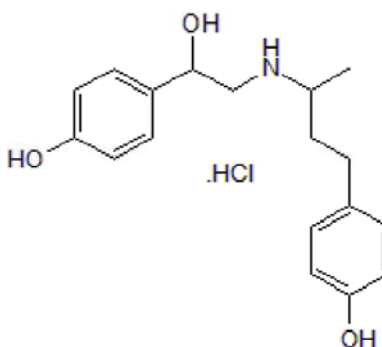
Batch Molecular Weight: 351.35

Physical Appearance: Off White solid

Solubility: water to 20 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.53	7.31	3.99
Found	61.35	7.16	3.93

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

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Product Information

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CAS Number: 90274-24-1

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IUPAC Name: 4-Hydroxy- α -[[[3-(4-hydroxyphenyl)-1-methylpropyl]amino]methyl]benzenemethanol hydrochloride

Description:

Trace amine 1 (TA₁) receptor agonist; increases chloride conductance in oocytes coexpressing hCFTR and mouse TA₁ receptors.

Physical and Chemical Properties:

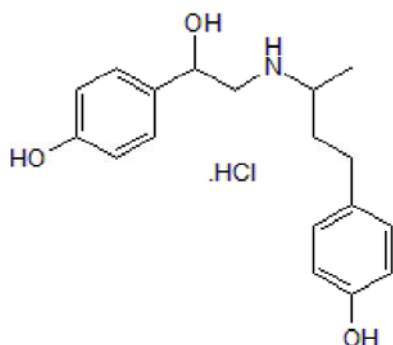
Batch Molecular Formula: C₁₈H₂₃NO₃.HCl.¾H₂O

Batch Molecular Weight: 351.35

Physical Appearance: Off White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 20 mM

DMSO 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.

References:

Liu *et al* (2014) Ractopamine, a livestock feed additive, is a full agonist at trace amine-associated receptor 1. *J.Pharmacol.Exp.Ther.* **350** 124. PMID: 24799633.

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