

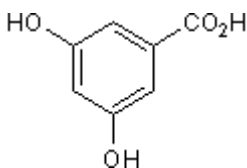
Certificate of Analysis

Product Name: 3,5-DHBA
CAS Number: 99-10-5
IUPAC Name: 3,5-Dihydroxybenzoic acid

Catalog No.: 4599 **Batch No.:** 1
EC Number: 202-730-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₆O₄
Batch Molecular Weight: 154.12
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.55	3.92	
Found	54.4	4.01	

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

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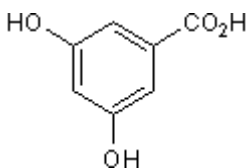
Batch No.: 1**Description:**

Selective agonist of hydroxycarboxylic acid receptor 1 (HCA₁, also known as GPR81) (EC₅₀ ~150 µM). Inhibits lipolysis in wild-type mouse adipocytes. Displays minimal activity at HCA₂ (at concentrations >10 mM) and no activity at HCA₃, free fatty acid receptor (FFAR) 2 or FFAR3.

Physical and Chemical Properties:Batch Molecular Formula: C₇H₆O₄

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Physical Appearance: White solid

Minimum Purity: >99%**Batch Molecular Structure:****References:**

Liu *et al* (2012) 3,5-dihydroxybenzoic acid, a specific agonist for hydroxycarboxylic acid 1, inhibits lipolysis in adipocytes. *J.Pharmacol.Exp.Ther.* **341** 794. PMID: 22434674.

Storage: Store at RT**Solubility & Usage Info:**water to 100 mM
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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