

Certificate of Analysis

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Product Name: UMB 68

Catalog No.: 5518

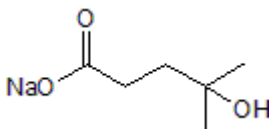
Batch No.: 1

CAS Number: 581099-89-0

IUPAC Name: Sodium 4-Hydroxy-4methylpentanoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₁₁NaO₃
Batch Molecular Weight: 154.14
Physical Appearance: White solid
Solubility: water to 100 mM
 DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.75	7.19	
Found	46.55	7.28	0.05

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

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Description:

GHB receptor ligand. Exhibits similar receptor affinity as GHB (IC₅₀ for displacement of ³[H]NCS-382 from GHB receptors is 38 μM compared with 25 μM for GHB). Demonstrates no significant affinity for GABA_B receptors and does not exhibit GHB-like behavioral effects in vivo.

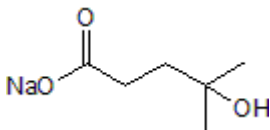
Physical and Chemical Properties:

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References:

Wu et al (2003) A tertiary alcohol analog of γ-hydroxybutyric acid as a specific γ-hydroxybutyric acid receptor ligand. *J.Pharmacol.Exp.Ther.* **305** 675. PMID: 12606613.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 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.

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