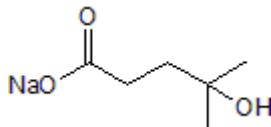


**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** UMB 68**Catalog No.:** 5518**Batch No.:** 1**CAS Number:** 581099-89-0**IUPAC Name:** Sodium 4-Hydroxy-4methylpentanoate**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>6</sub>H<sub>11</sub>NaO<sub>3</sub>**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****<sup>1</sup>H 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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## Product Information

[www.tocris.com](http://www.tocris.com)**Product Name:** UMB 68**Catalog No.:** 5518**Batch No.:** 1

CAS Number: 581099-89-0

IUPAC Name: Sodium 4-Hydroxy-4methylpentanoate

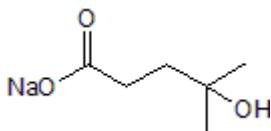
**Description:**

GHB receptor ligand. Exhibits similar receptor affinity as GHB (IC<sub>50</sub> for displacement of <sup>3</sup>[H]NCS-382 from GHB receptors is 38 μM compared with 25 μM for GHB). Demonstrates no significant affinity for GABA<sub>B</sub> receptors and does not exhibit GHB-like behavioral effects in vivo.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>6</sub>H<sub>11</sub>NaO<sub>3</sub>

Batch Molecular Weight: 154.14

Physical Appearance: White solid

**Batch Molecular Structure:****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.

**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.

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