

**Product Name:** Gly MCA

**Catalog No.:** 6669

**Batch No.:** 1

CAS Number: 66225-78-3

IUPAC Name: N-[(3 $\alpha$ ,5 $\beta$ ,6 $\beta$ ,7 $\beta$ )-3,6,7-Trihydroxy-24-oxocholan-24-yl]glycine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>43</sub>NO<sub>6</sub>.1 $\frac{1}{4}$ H<sub>2</sub>O

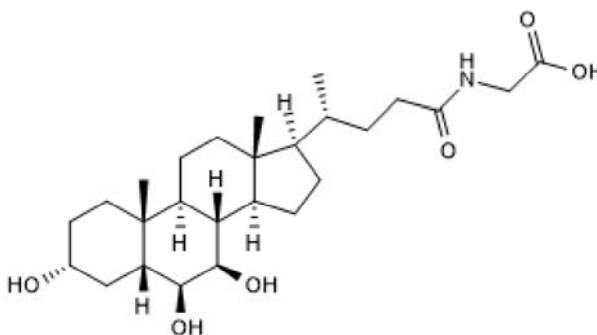
**Batch Molecular Weight:** 497.14

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.81	9.43	2.82
Found	62.91	9.53	2.82

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**Description:**

Farnesoid X receptor (FXR) antagonist. Accumulates in ileum and inhibits FXR signaling exclusively in intestine. Inhibits or reverses high-fat diet-induced and genetic obesity, insulin resistance and hepatic steatosis in mice. Reduces obesity and metabolic syndrome in obese mice. Orally bioavailable.

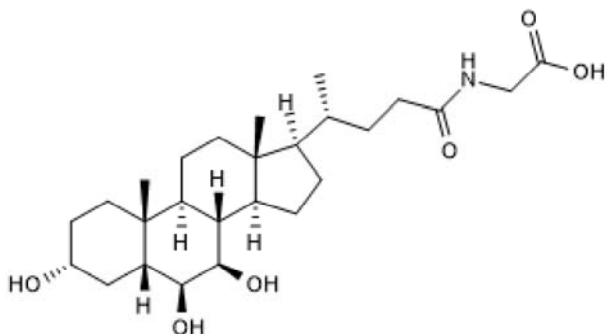
**Physical and Chemical Properties:**

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**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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:**

**Clemmensen et al** (2017) Gut-brain cross-talk in metabolic control. *Cell* **168** 758. PMID: 28235194.

**Wahlström et al** (2016) Intestinal crosstalk between bile acids and microbiota and its impact on host metabolism. *Cell Metab.* **24** 41. PMID: 27320064 .

**Jiang et al** (2015) Intestine-selective farnesoid X receptor inhibition improves obesity-related metabolic dysfunction. *Nat. Commun.* **6** 10166. PMID: 26670557.

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