

Product Name: Carbenoxolone disodium

Catalog No.: 3096

Batch No.: 5

CAS Number: 7421-40-1

EC Number: 231-044-0

IUPAC Name: (3 β ,20 β)-3-(3-Carboxy-1-oxopropoxy)-11-oxoolean-12-en-29-oic acid disodium

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄H₄₈Na₂O₇·1½H₂O

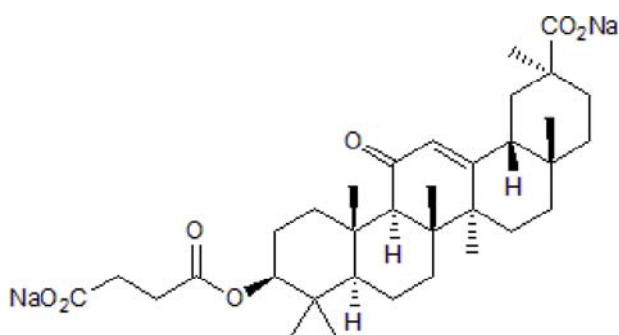
Batch Molecular Weight: 641.74

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 63.63 | | 8.01 |
| Found | 63.32 | | 8.11 |

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

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IUPAC Name: (3 β ,20 β)-3-(3-Carboxy-1-oxopropoxy)-11-oxoolean-12-en-29-oic acid disodium

Description:

Glucocorticoid that inhibits 11 β -hydroxysteroid dehydrogenase (11-HSD) and blocks gap junction communication.

Physical and Chemical Properties:

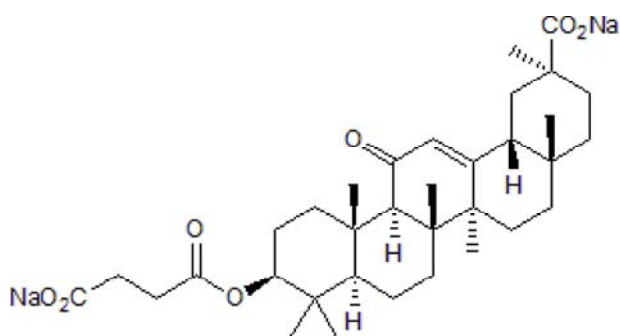
Batch Molecular Formula: C₃₄H₄₈Na₂O₇·1½H₂O

Batch Molecular Weight: 641.74

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water 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:

Sagar and Larson (2006) Carbenoxolone inhibits junctional transfer and upregulates connexin43 expression by a protein kinase A-dependent pathway. *J.Cell.Biochem.* **98** 1543. PMID: 16552723.

Jellinck et al (1993) Differential inhibition of 11 beta-hydroxysteroid dehydrogenase by carbenoxolone in rat brain regions and peripheral tissues. *J.Steroid Biochem.Mol.Biol.* **46** 209. PMID: 8664169.

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