

Product Name: Proglumide sodium salt

Catalog No.: 1478

Batch No.: 2

CAS Number: 99247-33-3

EC Number: 229-567-4

IUPAC Name: 4-(Benzoylamino)-5-(dipropylamino)-5-oxopentanoic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₅N₂NaO₄·¼H₂O

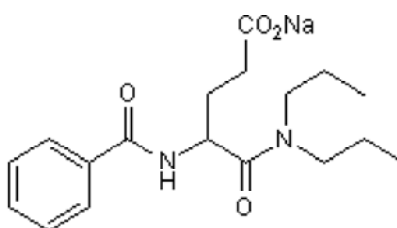
Batch Molecular Weight: 360.89

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.91	7.12	7.76
Found	59.73	7.24	7.71

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

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Description:

Non-selective cholecystokinin (CCK) antagonist. Inhibits CCK-stimulated amylase secretion and prevents CCK-induced 2-deoxyglucose uptake in mouse pancreatic acini. Blocks growth of HT29 colon carcinoma cells in response to gastrin 17 treatment. Orally active.

Physical and Chemical Properties:

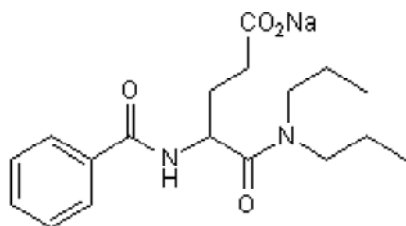
Batch Molecular Formula: C₁₈H₂₅N₂NaO₄·¼H₂O

Batch Molecular Weight: 360.89

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

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:

Mauss *et al* (1994) Effects of gastrin, proglumide, loxiglumide and L-365,260 on growth of human colon carcinoma cells. *Anticancer Res.* **14** 215. PMID: 8166452.

Iwamoto *et al* (1984) In vitro and in vivo effect of proglumide on cholecystokinin-stimulated amylase release in mouse pancreatic acini. *Gastroenterol.Jpn.* **19** 53. PMID: 6202584.

Hahne *et al* (1981) Proglumide and benzotript: members of a different class of cholecystokinin receptor antagonists. *Proc.Natl.Acad.Sci.U.S.A.* **78** 6304. PMID: 6171817.

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