

## Certificate of Analysis

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**Product Name:** Proglumide sodium salt

**Catalog No.:** 1478

**Batch No.:** 3

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:** C<sub>18</sub>H<sub>25</sub>N<sub>2</sub>NaO<sub>4</sub>·¼H<sub>2</sub>O

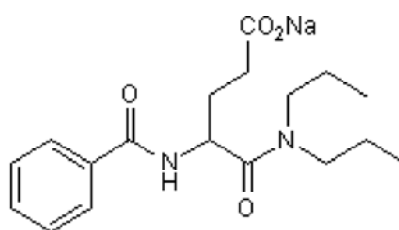
**Batch Molecular Weight:** 360.89

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.91	7.12	7.76
Found	59.9	7.19	7.82

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

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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:**

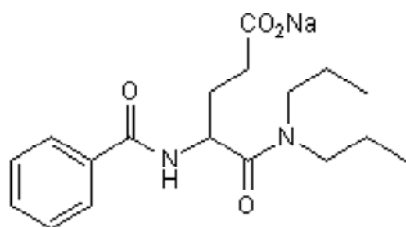
Batch Molecular Formula: C<sub>18</sub>H<sub>25</sub>N<sub>2</sub>NaO<sub>4</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 360.89

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**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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