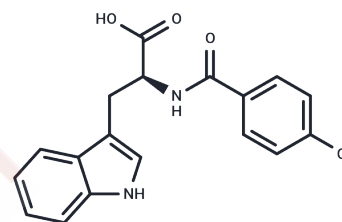


Benzotript

Chemical Properties

CAS No. :	39544-74-6
Formula:	C ₁₈ H ₁₅ ClN ₂ O ₃
Molecular Weight:	342.776
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Benzotript is an gastrin-receptor antagonist, with anti-gastrinic.
Targets(IC50)	Others,Cholecystokinin Receptor
In vitro	proglumide and benzotript, a new tryptophan derivative, to inhibit acid output from isolated gastric fundic parietal cells from rabbit.?As measured with the [14C] aminopyrine (AP) accumulation method as an index of acid secretion, the two drugs inhibited basal AP with IC-50 values of 1 X 10 ⁽⁻²⁾ M for proglumide and 1 X 10 ⁽⁻³⁾ M for benzotript.?In the case of secretagogue stimulation (1) benzotript slightly affected histamine-induced AP (15% inhibition at 5 X 10 ⁽⁻³⁾ M), proglumide did not;?(2) both proglumide and benzotript inhibited in a non-competitive manner acetylcholine-induced AP;?(3) these isolated cells were sensitive to gastrin and the dose-response curve for the stimulant was biphasic (maximum for 1 X 10 ⁽⁻⁹⁾ M), suggesting a desensitization mechanism.?Proglumide and benzotript competitively inhibited both [125I]gastrin binding to its receptor sites and gastrin-induced AP, suggesting they are members of a class of gastrin-receptor antagonists.

Solubility Information

Solubility	DMSO: 10 mg/mL (29.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9173 mL	14.5866 mL	29.1732 mL
5 mM	0.5835 mL	2.9173 mL	5.8346 mL
10 mM	0.2917 mL	1.4587 mL	2.9173 mL
50 mM	0.0583 mL	0.2917 mL	0.5835 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Magous R , Bali J P . Evidence that proglumide and benzotript antagonize secretagogue stimulation of isolated gastric parietal cells.[J]. Regulatory Peptides, 1983, 7(3):233-241.

Niederau C . Caerulein-induced acute necrotizing pancreatitis in mice: protective effects of proglumide, benzotript, and secretin.[J]. Gastroenterology, 1985, 88.

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