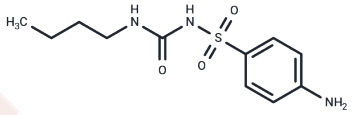
Data Sheet (Cat.No.T8345)

TargetMol

Carbutamide

Chemical Properties



CAS No. : 339-43-5

Formula: C11H17N3O3S

Molecular Weight: 271.34

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	Carbutamide is a sulfonylurea antidiabetic agent with hypoglycemic activity.
Targets(IC50)	Others,Phosphatase

Solubility Information

Solubility	DMSO: 260 mg/mL (958.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (18.43 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6854 mL	18.4271 mL	36.8541 mL
5 mM	0.7371 mL	3.6854 mL	7.3708 mL
10 mM	0.3685 mL	1.8427 mL	3.6854 mL
50 mM	0.0737 mL	0.3685 mL	0.7371 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

Ranita Aiman,R D KULKARNI.The Effect of Human Plasma on the Glucose Uptake of the Rat Diaphragm Before and After Administration of Carbutamide.Br J Pharmacol Chemother. 1957 Dec;12(4):475-8.
Kleinsorge H, et al. Carbutamide--the first oral antidiabetic. A retrospect. Exp Clin Endocrinol Diabetes. 1998;106 (2):149-51.

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