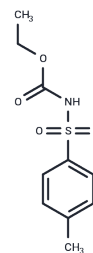


Ethyl tosylcarbamate

Chemical Properties

CAS No. :	5577-13-9
Formula:	C ₁₀ H ₁₃ NO ₄ S
Molecular Weight:	243.28
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	Gliclazide is a whole-cell beta-cell ATP-sensitive potassium currents blocker with an IC ₅₀ of 184 nM. Ethyl tosylcarbamate is an intermediate in the synthesis of Gliclazide (G409877).
Targets(IC50)	Others,Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1105 mL	20.5524 mL	41.1049 mL
5 mM	0.8221 mL	4.1105 mL	8.221 mL
10 mM	0.411 mL	2.0552 mL	4.1105 mL
50 mM	0.0822 mL	0.411 mL	0.8221 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

- Holmes B, et al. Gliclazide. A preliminary review of its pharmacodynamic properties and therapeutic efficacy in diabetes mellitus. *Drugs*. 1984 Apr;27(4):301-27.
- Rebecka Isaksson, et al. Rapid and straightforward transesterification of sulfonyl carbamates. *Tetrahedron Letters*, 57(13), 1476-1478.
- Shimoyama, T., et al., Gliclazide protects 3T3L1 adipocytes against insulin resistance induced by hydrogen peroxide with restoration of GLUT4 translocation. *Metabolism*, 2006. 55(6): p. 722-30.

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