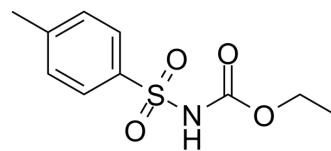


Ethyl tosylcarbamate

Cat. No.:	HY-135337
CAS No.:	5577-13-9
Molecular Formula:	C ₁₀ H ₁₃ NO ₄ S
Molecular Weight:	243.28
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ethyl tosylcarbamate is an intermediate in the synthesis of Gliclazide (G409877)^{[1][2]}. Gliclazide is a whole-cell beta-cell ATP-sensitive potassium currents blocker with an IC₅₀ of 184 nM^[3].

REFERENCES

- [1]. 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.
- [2]. Rebecka Isaksson, et al. Rapid and straightforward transesterification of sulfonyl carbamates. *Tetrahedron Letters*, 57(13), 1476–1478.
- [3]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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