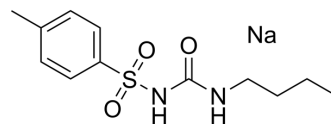


## Tolbutamide sodium

Cat. No.:	HY-B0401A
CAS No.:	473-41-6
Molecular Formula:	C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> NaO <sub>3</sub> S
Molecular Weight:	293.34
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Tolbutamide sodium is a potent and orally active antidiabetic agent. Tolbutamide sodium induces apoptosis in a Ca<sup>2+</sup> dependent manner in pancreatic β-cells. Tolbutamide sodium has the potential for the research of non-insulin-dependent diabetes mellitus<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

- Cancer Cell Int. 2023 Jan 31;23(1):14.
- AAPS J. 2021 Jun 28;23(4):91.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Trube G, et al. Opposite effects of tolbutamide and diazoxide on the ATP-dependent K<sup>+</sup> channel in mouse pancreatic beta-cells. Pflugers Arch. 1986 Nov;407(5):493-9.
- [2]. Efanova IB, et al. Glucose and tolbutamide induce apoptosis in pancreatic beta-cells. A process dependent on intracellular Ca<sup>2+</sup> concentration. J Biol Chem. 1998 Dec 11;273(50):33501-7.

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

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