



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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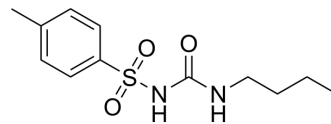
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## Tolbutamide (Standard)

Cat. No.:	HY-B0401R
CAS No.:	64-77-7
Molecular Formula:	C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	270.35
Target:	Na <sup>+</sup> /K <sup>+</sup> ATPase
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Tolbutamide (Standard) is the analytical standard of Tolbutamide. This product is intended for research and analytical applications. Tolbutamide is an orally active K<sub>ATP</sub> inhibitor. Tolbutamide inhibits cell proliferation, stimulates exocytosis of glucagon and reduces fetal lethality of mice. Tolbutamide can be used in the research of diabetes<sup>[1][2][3][4]</sup>.

### REFERENCES

- [1]. Sánchez-Alvarez R, et al. Tolbutamide reduces glioma cell proliferation by increasing connexin43, which promotes the up-regulation of p21 and p27 and subsequent changes in retinoblastoma phosphorylation [J]. *Glia*, 2006, 54(2): 125-134.
- [2]. Hoey M, et al. Tolbutamide stimulates exocytosis of glucagon by inhibition of a mitochondrial-like ATP-sensitive K<sup>+</sup> (KATP) conductance in rat pancreatic A-cells [J]. *The Journal of Physiology*, 2000, 527(1): 109-120.
- [3]. Williams A J K, et al. Tolbutamide reduces the incidence of diabetes mellitus, but not insulinitis, in the non-obese-diabetic mouse [J]. *Diabetologia*, 1993, 36: 487-492.
- [4]. Belisle R J, et al. Tolbutamide treatment of pregnant mice: repeated administration reduces fetal lethality [J]. *Teratology*, 1976, 13(1): 65-70.

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

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