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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

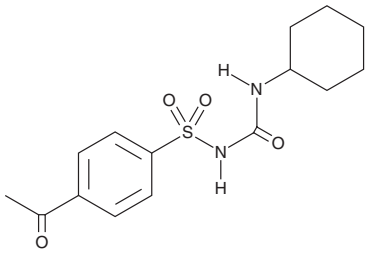
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Acetohexamide

Item No. 23900

CAS Registry No.:	968-81-0
Formal Name:	4-acetyl-N-[(cyclohexylamino) carbonyl]-benzenesulfonamide
MF:	$C_{15}H_{20}N_2O_4S$
FW:	324.4
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Acetohexamide is supplied as a solid. A stock solution may be made by dissolving the acetohexamide in the solvent of choice, which should be purged with an inert gas. Acetohexamide is slightly soluble in DMSO.

Description

Acetohexamide is a first generation sulfonylurea that inhibits sulfonylurea receptor 1 (SUR1) linked to the inwardly rectifying potassium channel ($K_{IR}6.2$) with K_i values of 22.9 and 14.2 µM in HEK293 cells transfected with the human receptor and in rat brain, respectively.[1] It is metabolized to the hypoglycemic compound L-hydroxyhexamide *in vivo*.[2,3] Formulations containing acetohexamide have previously been used in the treatment of type 2 diabetes.

References

1. Gopalakrishnan, M., Molinari, E.J., Char-Change, S., *et al*. Pharmacology of human sulphonylurea receptor SUR1 and inward rectifier K^+ channel Kir6.2 combination expressed in HEK-293 cells. *Br. J. Pharmacol.* **129(7)**, 1323-1332 (2000).
2. McMahon, R.E., Marshall, F.J., and Culp, H.W. The nature of the metabolites of acetohexamide in the rat and in the human. *J. Pharmacol. Exp. Ther.* **149(2)**, 272-279 (1965).
3. Imamura, Y., Sanai, K., Seri, K., *et al*. Hypoglycemic effect of S(-)-hydroxyhexamide, a major metabolite of acetohexamide, and its enantiomer R(+)-hydroxyhexamide. *Life Sci.* **69(16)**, 1947-1955 (2001).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM