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# DATASHEET

Diazoxide

## Product overview

<b>Name</b>	Diazoxide
<b>Cat No</b>	HB0244
<b>Biological action</b>	Activator
<b>Purity</b>	>98%
<b>Description</b>	Selective K <sub>IR</sub> 6 activator

## Biological Data

<b>Biological description</b>	Selective K <sub>IR</sub> 6 (ATP-sensitive K <sup>+</sup> ) channel activator. Increases EPSCs to around 150% of control values. Shows cardioprotective actions during ischaemic injury by activating PKCε. Also shows neuroprotective and antihypertensive actions.
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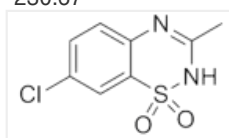
## Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## Chemical Data

<b>Chemical name</b>	7-Chloro-3-methyl-2H-1,2,4-benzothiadiazine1,1-dioxide
<b>Molecular Weight</b>	230.67

**Chemical structure**



<b>Molecular Formula</b>	C <sub>8</sub> H <sub>7</sub> ClN <sub>2</sub> O <sub>2</sub> S
<b>CAS Number</b>	364-98-7
<b>PubChem identifier</b>	3019
<b>SMILES</b>	CC1=NC2=C(C=C(Cl)C=C2)S(=O)(=O)N1
<b>InChiKey</b>	GDLBFKVLRPITMI-UHFFFAOYSA-N

## References

**Diazoxide blocks glutamate desensitization and prolongs excitatory postsynaptic currents in rat hippocampal neurons.**

Yamada KA *et al* (1992) J Physiol 458

**PubMedID** [1302270](#)

**Diazoxide acts more as a PKC-epsilon activator, and indirectly activates the mitochondrial K(ATP) channel conferring cardioprotection against hypoxic injury.**

Kim MY *et al* (2006) Br J Pharmacol 149(8)

**PubMedID**

17043673

**Towards selective Kir6.2/SUR1 potassium channel openers, medicinal chemistry and therapeutic perspectives.**

Hansen JB (2006) *Curr Med Chem* 13(4)

**PubMedID**

16475928

**The neuroprotective effect of diazoxide is mediated by mitochondrial ATP-dependent potassium channels in a rat model of acute subdural hematoma.**

Nakagawa I *et al* (2013) *J Clin Neurosci* 20(1)

**PubMedID**

23036174

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