

3-Methyl-7-chloro-1,2,4-benzothiadiazine 1,1-dioxide

Catalog No: tcsc4745



Available Sizes

Size: 100mg



Specifications

CAS No:

364-98-7

Formula:

$C_8H_7ClN_2O_2S$

Pathway:

Autophagy;Membrane Transporter/Ion Channel

Target:

Autophagy;Potassium Channel

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 35 mg/mL (151.73 mM); H₂O :

Alternative Names:

Sch-6783;SRG-95213

Observed Molecular Weight:

230.67

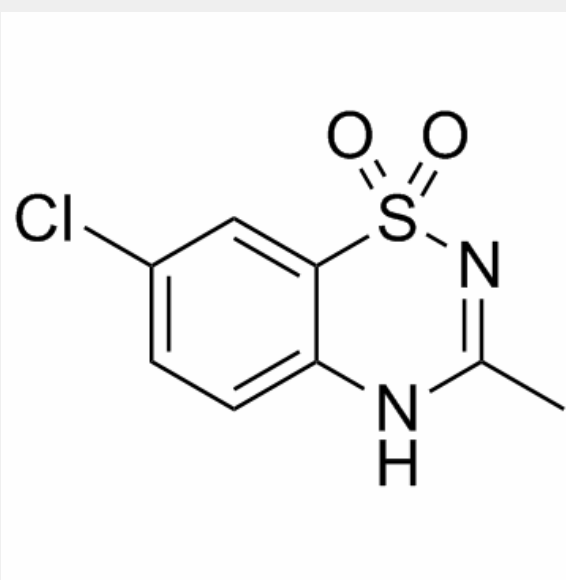
Product Description

Diazoxide is an ATP-sensitive **potassium channel** activator ; can be used to treat hyperinsulinism.

In Vitro: Diazoxide has a number of physiological effects, including lowering the blood pressure and rectifying hypoglycemia. Diazoxide has powerful protective properties against cardiac ischemia^[1].Diazoxide could protect NSC-34 neurons against the main sources of neurodegenerative damage. Diazoxide increases Nrf2 nuclear translocation in NSC-34 motoneurons and prevents

endogenous oxidative damage^[2].

In Vivo: Diazoxide attenuates postresuscitation brain injury, protects mitochondrial function, inhibits brain cell apoptosis, and activates the PKC pathway by opening mitoKATP channels^[3]. Treatment with diazoxide in wild-type mice decreases intraocular pressure (IOP) by 21.5±3.2% with an absolute IOP reduction of 3.9 ± 0.6 mm Hg^[4].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!