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**Product Data Sheet**


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Product Name: Irsogladine maleate (Dicloguamine maleate)

Cat. No.: GC33878

**Chemical Properties**

Cas. No. 84504-69-8

SMILES O=C(O)/C=C\C(O)=O.NC1=NC(N)=NC(C2=CC(Cl)=CC=C2Cl)=N1Formula C13H11Cl2N5O4

M.Wt 372.16

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2)  
(1:3): 0.25 mg/mlStorage Store at -  
20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Irsogladine is a gastroprotective agent.<sup>1,2,3</sup> It increases transfer of Lucifer yellow CH between isolated rabbit gastric epithelial cells, indicating enhanced gap junction intercellular communication (GJIC).<sup>2</sup> Irsogladine (3 mg/kg) inhibits gastric mucosal lesion formation and decreases in gastric mucosal blood flow induced by monochloramine in rats, effects that can be prevented by the nitric oxide synthase inhibitor L-NAME.<sup>1</sup> It also inhibits superoxide anion production induced by fMLP and increases cAMP levels in isolated human neutrophils in a concentration-dependent manner, similar to the phosphodiesterase 4 (PDE4) inhibitor rolipram.<sup>3</sup>

1.Kyoi, T., Oka, M., Noda, K., et al. Irsogladine prevents monochloramine-induced gastric mucosal lesions by improving the decrease in mucosal blood flow due to the disturbance of nitric oxide synthesis in rats. *J. Pharmacol. Sci.* 93(3)314-320(2003) 2.Ueda, F., Ban, K., and Ishima, T. Irsogladine activates gap-junctional intercellular communication through M1 muscarinic acetylcholine receptor. *J. Pharm. Exp. Ther.* 274(2)815-819(1995) 3.Kyoi, T., Noda, K., Oka, M., et al. Irsogladine, an anti-ulcer drug, suppresses superoxide production

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

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by inhibiting phosphodiesterase type 4 in human neutrophils Life Sci. 76(1)71-83(2004)

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