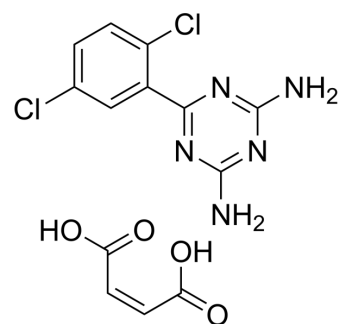


Irsogladine maleate

Cat. No.:	HY-B0327A
CAS No.:	84504-69-8
Molecular Formula:	C ₁₃ H ₁₁ Cl ₂ N ₃ O ₄
Molecular Weight:	372.16
Target:	mAChR; Phosphodiesterase (PDE)
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Irsogladine is a PDE4 inhibitor and muscarinic acetylcholine receptor binder. Target: PDE4; mAChR. Irsogladine treatment (300 and 500 mg/kg/day) resulted in a dose-dependent reduction of angiogenesis in wild-type mice by 21 and 45.3% (P < 0.02, P < 0.001), in tPA-deficient mice by 42.6 and 46% (P < 0.001, P < 0.001), and in uPA-deficient mice by 27.2 and 46% (P < 0.05, p < 0.001), respectively. Irsogladine inhibits bFGF-induced angiogenesis in wild-type, tPA-knockout, and uPA-knockout mice [1]. Irsogladine up-regulates GJIC between PC cells via regulation of the PKA pathway. It also suggests a useful adjuvant of Irsogladine to pancreatic cancer therapy [2]. Irsogladine produces the increase of intracellular cAMP content via non-selective inhibition of PDE isozymes, which may be a key mechanism involved in its gastroprotective actions [3].

IC₅₀ & Target

PDE4

CUSTOMER VALIDATION

- Cryst Growth Des. 2016, 16 (12):6714-6718.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Ren, C.J., et al., Irsogladine maleate inhibits angiogenesis in wild-type and plasminogen activator-deficient mice. *J Surg Res*, 1998, 77(2): p. 126-31.
- [2]. Kawasaki, Y., et al., Irsogladine maleate up-regulates gap junctional intercellular communication between pancreatic cancer cells via PKA pathway. *Pancreas*, 2002, 25(4): p. 373-7.
- [3]. Kyoj, T., et al., Phosphodiesterase inhibition by a gastroprotective agent irsogladine: preferential blockade of cAMP hydrolysis. *Life Sci*, 2004, 75(15): p. 1833-42.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA