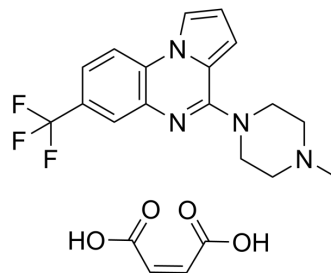


CGS-12066 maleate

Cat. No.:	HY-123704
CAS No.:	1350965-83-1
Molecular Formula:	C ₂₁ H ₂₁ F ₃ N ₄ O ₄
Molecular Weight:	450.41
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CGS-12066 (maleate) is a 5-HT receptor agonist. CGS-12066 has agonist effect for 5-HT _{1A} , 5-HT _{1B} , 5-HT _{1C} and 5-HT _{1D} with pEC ₅₀ values of 6.41, 7.56, 4.05 and 7.11, respectively. CGS-12066 can be used for the research of neurological disease ^[1] .
IC₅₀ & Target	pEC ₅₀ : 6.41 (5-HT _{1A}), 7.56 (5-HT _{1B}), 4.05 (5-HT _{1C}) and 7.11 (5-HT _{1D}) ^[1] . pK _D : 7.19 (5-HT _{1A}), 6.94 (5-HT _{1B}), 4.89 (5-HT _{1C}) and 7.49 (5-HT _{1D}) ^[1] .
In Vitro	CGS-12066 (maleate) has agonist effect for 5-HT _{1A} , 5-HT _{1B} , 5-HT _{1C} and 5-HT _{1D} with pEC ₅₀ values of 6.41, 7.56, 4.05 and 7.11, respectively ^[1] . CGS-12066 (maleate) has agonist effect for 5-HT _{1A} , 5-HT _{1B} , 5-HT _{1C} and 5-HT _{1D} with pK _D values of 7.19, 6.94, 4.89 and 7.49, respectively ^[1] . CGS-12066 (maleate) stimulates accumulation of inositol phosphates with low potency ^[1] . CGS-12066 (maleate) acts as partial agonist in inhibiting forskolin-stimulated adenylate cyclase activity in calf substantia nigra ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Schoeffter P, et al. Interaction of arylpiperazines with 5-HT_{1A}, 5-HT_{1B}, 5-HT_{1C} and 5-HT_{1D} receptors: do discriminatory 5-HT_{1B} receptor ligands exist?. Naunyn Schmiedebergs Arch Pharmacol. 1989;339(6):675-683.

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

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