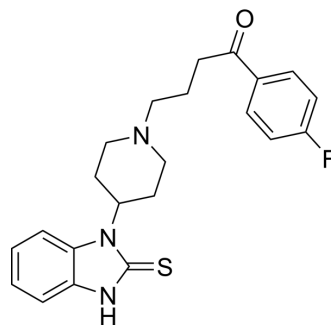


Timiperone

Cat. No.:	HY-127120
CAS No.:	57648-21-2
Molecular Formula:	C ₂₂ H ₂₄ FN ₃ OS
Molecular Weight:	397.51
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Timiperone has a strong affinity for cerebral dopamine D2 receptor. Timiperone has antipsychotic activity, and inhibits stereotyped behaviour. Timiperone can be used for research of schizophrenia ^{[1][2][3]} .
IC₅₀ & Target	dopamine D2 receptor ^[3]

REFERENCES

- [1]. Sudo K, et al. Disposition of timiperone, 4'-fluoro-4-[4-(2-thioxo-1-benzimidazolyl)piperidino]butyrophenone, a neuroleptic, in the rat on repeated oral dosage. *Xenobiotica*. 1981 Oct;11(10):685-91.
- [2]. Kariya T, et al. A comparison of the clinical effects of timiperone, a new butyrophenone derivative, and haloperidol on schizophrenia using a double-blind technique. *J Int Med Res*. 1983;11(2):66-77.
- [3]. Inada, K., et al. First-Generation Antipsychotics as a Bridge to Second-Generation Antipsychotics in the Japanese Pharmaceutical Industry: Mosapramine, Timiperone, Zotepine, and Nemonapride. *NeuroPsychopharmacotherapy*. Springer, Cham. (2021).

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

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