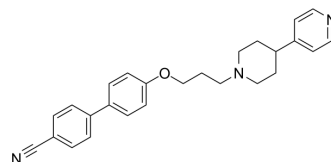


Sigma-1 receptor antagonist 5

Cat. No.:	HY-149335
CAS No.:	2952808-33-0
Molecular Formula:	C ₂₆ H ₂₇ N ₃ O
Molecular Weight:	397.51
Target:	Sigma Receptor; Histamine Receptor
Pathway:	Neuronal Signaling; GPCR/G Protein; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sigma-1 receptor antagonist 5 (compound 12) is a 4-pyridylpiperidine derivative with analgesic activity. It is an antagonist of sigma receptor (K _i =4.5 nM (σ ₁ R) 10 nM (σ ₂ R)) and histamine H ₃ (hH ₃ R K _i =7.7 nM IC ₅₀ =215 nM). Sigma-1 receptor antagonist 5 suppresses Capsaicin-induced nociception with antinociceptive activity and shows potent efficacy in nociceptive and neuropathic pain models ^[1] .
IC ₅₀ & Target	Ki: 7.7 nM (σ ₁ R), 4.5 Nm (σ ₂ R), 10 nM (hH ₃ R) ^[1]

REFERENCES

[1]. Szczepańska K, et al. Dual Piperidine-Based Histamine H₃ and Sigma-1 Receptor Ligands in the Treatment of Nociceptive and Neuropathic Pain. J Med Chem. 2023 Jul 27;66(14):9658-9683.

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

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