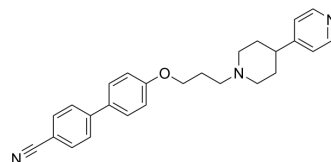


Sigma-1 receptor antagonist 5

| | |
|--------------------|---|
| Cat. No.: | HY-149335 |
| 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-piperidylpiperidine 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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