**Data Sheet**

**Product Name:** Perphenazine  
**Cat. No.:** HY-A0077  
**CAS No.:** 58-39-9

**Molecular Formula:** C₂₁H₂₆ClN₃OS  
**Molecular Weight:** 403.97

**Target:** 5–HT Receptor; 5–HT Receptor; Adrenergic Receptor; Dopamine Receptor; Dopamine Receptor; Histamine Receptor; Histamine Receptor

**Pathway:** Neuronal Signaling; GPCR/G Protein; GPCR/G Protein; GPCR/G Protein

**Solubility:** DMSO: ≥ 4.1 mg/mL

**BIOLOGICAL ACTIVITY:**

Perphenazine is a typical antipsychotic drug, inhibits 5–HT2A receptor (5–HT2A), Alpha–1A adrenergic receptor (α1A), Dopamine receptor D2/D3, D2L receptor, and Histamine H1 receptor (H1) with Ki of 5.6, 10, 0.765/0.13, 3.4, and 8 nM.

IC₅₀ value: 5.6 nM (Ki, 5–HT2A) 10 nM (Ki,α1A), 0.765/0.13 nM (Ki,D2/D3), 3.4 nM (Ki,D2L receptor), 8 nM (Ki,H1)

**Target:** 5–HT2A,α1A,D2/D3, D2L receptor,H1

**References:**


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

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