



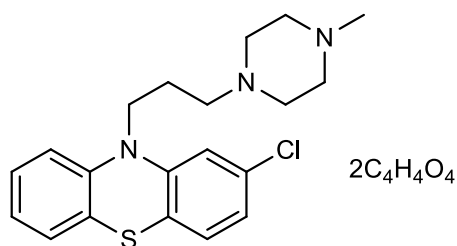
Catalog # 10-3474

Prochlorperazine maleate

CAS# 84-02-6

2-Chloro-10-[3-(4-methylpiperazin-1-yl)propyl]phenothiazine dimaleate

Lot # X109569



Inhibits dynamin and clathrin-mediated endocytosis (CME) with an IC₅₀=5.8 μM for CME.¹ Increases tumor cell antigen presentation enhancing the efficacy of anti-tumor mAbs.² A clinically useful antipsychotic agent³ with antimigraine⁴ and antiemetic activity⁵.

- 1) Daniel *et al.* (2015), *Phenothiazine-derived antipsychotic drugs inhibit dynamin and clathrin-mediated endocytosis*; *Traffic*, **16** 635
- 2) Chew *et al.* (2020), *Endocytosis Inhibition in Humans to Improve Responses to ADCC-Mediating Antibodies*; *Cell*, **180** 895
- 3) Hollister *et al.* (1969), *Clinical use of psychotherapeutic drugs: current status*; *Clin. Pharmacol. Ther.*, **10** 170
- 4) Cook and Newberry (2018), *Emergency Department Use of Intravenous Prochlorperazine for Acute Migraine*; *Adv. Emerg. Nurs. J.*, **40** 148
- 5) Van den Berg *et al.* (1996), *The prophylactic antiemetic efficacy of prochlorperazine and ondansetron in nasal septal surgery: a randomized double-blind comparison*; *Anaesth. Intensive Care*, **24** 538

PHYSICAL DATA

Molecular Weight:	606.09
Molecular Formula:	C ₂₀ H ₂₄ ClN ₃ S · 2C ₄ H ₄ O ₄
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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