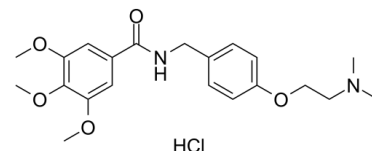


Data Sheet

Product Name:	Trimethobenzamide hydrochloride
Cat. No.:	CS-7696
CAS No.:	554-92-7
Molecular Formula:	C ₂₁ H ₂₉ ClN ₂ O ₅
Molecular Weight:	424.92
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : ≥ 100 mg/mL (235.34 mM)



BIOLOGICAL ACTIVITY:

Trimethobenzamide hydrochloride is a blocker of the D₂ receptor. Trimethobenzamide is an antiemetic used to prevent nausea and vomiting. IC₅₀ & Target: D₂ receptor^[1] **In Vitro:** Trimethobenzamide is a (non-phenothiazine) benzamide antiemetic that acts centrally to block D₂ receptors, thereby inhibiting the medullary chemoreceptor trigger zone by blocking emetic impulses to the vomiting center^[1]. **In Vivo:** The oral bioavailability of Trimethobenzamide is 60% to 100%. The time to peak is about 45 minutes after oral administration and; Intramuscular (I.M.) administration about 30 minutes after intramuscular administration^[1].

References:

[1]. Smith HS, et al. Dopamine receptor antagonists. Ann Palliat Med. 2012 Jul;1(2):137-42.

CAIndexNames:

Benzamide, N-[[4-[2-(dimethylamino)ethoxy]phenyl]methyl]-3,4,5-trimethoxy-, hydrochloride (1:1)

SMILES:

O=C(NCC1=CC=C(C(OCN(C)C)C=C1)C2=CC(OC)=C(OC)C(OC)=C2.Cl

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

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