

## Trifluoperazine

## Chemical Properties

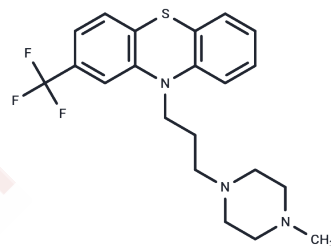
CAS No. : 117-89-5

Formula: C<sub>21</sub>H<sub>24</sub>F<sub>3</sub>N<sub>3</sub>S

Molecular Weight: 407.5

Keep away from moisture, Store at low temperature,  
Store under nitrogenStorage: Pure form: -20°C for 3 years | In solvent: -80°C for 1  
year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Trifluoperazine (trifluoroperazine) is a Dopamine D2 receptor inhibitor (IC <sub>50</sub> : 1.2 nM), and Treatment of schizophrenia.
Targets (IC <sub>50</sub> )	CaMK, Adrenergic Receptor, Autophagy, Dopamine Receptor, Influenza Virus, P-gp

## Solubility Information

Solubility	DMSO: 242 mg/mL (593.87 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.454 mL	12.2699 mL	24.5399 mL
5 mM	0.4908 mL	2.454 mL	4.908 mL
10 mM	0.2454 mL	1.227 mL	2.454 mL
50 mM	0.0491 mL	0.2454 mL	0.4908 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Magdolna, Tardy, Markus, et al. Trifluoperazine versus low-potency first-generation antipsychotic drugs for schizophrenia[J]. Cochrane Database of Systematic Reviews, 2014.

Lu J, Hou Y, Ge S, et al. Screened antipsychotic drugs inhibit SARS-CoV-2 binding with ACE2 in vitro. Life Sciences. 2020: 118889.

Koch K, Mansi K, Haynes E, et al. Trifluoperazine versus placebo for schizophrenia[J]. Cochrane Database of Systematic Reviews, 2014, 1(1):CD010226.

Lu J, Hou Y, Ge S, et al. Screened antipsychotic drugs inhibit SARS-CoV-2 binding with ACE2 in vitro[J]. Life Sciences. 2020: 118889.

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Tel: 781-999-4286    E\_mail: info@targetmol.com    Address: 34 Washington Street, Wellesley Hills, MA 02481