

Product Name: PRX 07034

Catalog No.: 6748

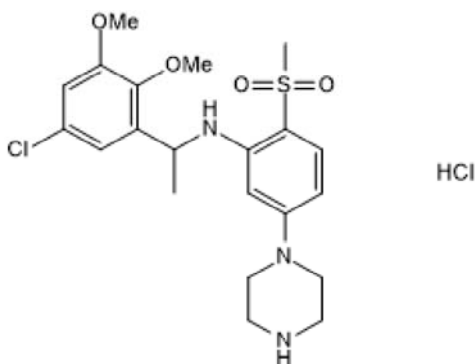
Batch No.: 1

CAS Number: 903580-39-2

IUPAC Name: *N*-(1-(5-Chloro-2,3-dimethoxyphenyl)ethyl)-2-(methylsulfonyl)-5-(piperazin-1-yl)aniline hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₈ClN₃O₄S.HCl.½H₂O
Batch Molecular Weight: 499.45
Physical Appearance: White solid
Solubility: water to 20 mM with gentle warming
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.5	6.05	8.41
Found	50.27	5.78	8.37

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IUPAC Name: N-(1-(5-Chloro-2,3-dimethoxyphenyl)ethyl)-2-(methylsulfonyl)-5-(piperazin-1-yl)aniline hydrochloride

Description:

Potent and selective 5-HT₆ receptor antagonist (IC₅₀ = 19 nM, K_i = 4 - 8 nM). Enhances working memory in rats.

Physical and Chemical Properties:

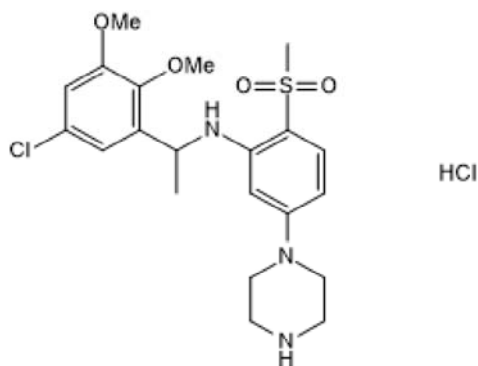
Batch Molecular Formula: C₂₁H₂₈ClN₃O₄S.HCl.½H₂O

Batch Molecular Weight: 499.45

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM with gentle warming

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Mohler et al (2012) The effects of PRX-07034, a novel 5-HT₆ antagonist, on cognitive flexibility and working memory in rats. *Psychopharmacology* (Berl). **220** 687. PMID: 21989804.

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