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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **BRL 15572 hydrochloride** **Catalog No.: 1207** **Batch No.: 1**

CAS Number: 1173022-77-9

IUPAC Name: 3-[4-(4-Chlorophenyl)piperazin-1-yl]-1,1-diphenyl-2-propanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{27}ClN_2O.HCl.½H_2O$

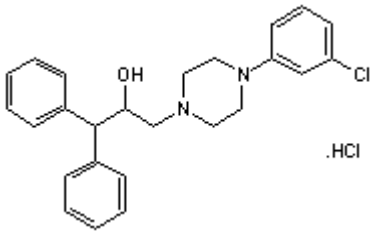
Batch Molecular Weight: 452.43

Physical Appearance: White solid

Solubility: DMSO to 10 mM
ethanol to 50 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Dichloromethane:Ammonia in M ethanol [99:1])

Melting Point: At 94°C

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine	
Theoretical	66.37	6.46	6.19	15.67	0 0
Found	66.08	6.43	5.88	15.81	0 0

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Product Information

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CAS Number: 1173022-77-9

IUPAC Name: 3-[4-(4-Chlorophenyl)piperazin-1-yl]-1,1-diphenyl-2-propanol hydrochloride

Description:

A selective h5-HT_{1D} antagonist, displaying 60-fold selectivity over h5-HT_{1B}, and exhibiting little or no affinity for a range of other receptor types.

Physical and Chemical Properties:

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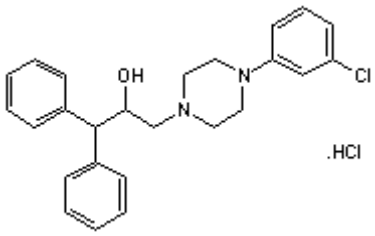

Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 10 mM
ethanol to 50 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:

Hagan *et al* (1997) Stimulation of 5-HT_{1B} receptors causes hypothermia in the rat. Eur.J.Pharmacol. ***331*** 169. PMID: 9274976.

Price *et al* (1997) SB-216641 and BRL-15572 - compounds to pharmacologically discriminate h5-HT_{1B} and h5-HT_{1D} receptors. Naunyn Schmiedebergs Arch.Pharmacol. ***356*** 312. PMID: 9303567.

Schlicker *et al* (1997) Effects of selective h5-HT_{1B} (SB-216641) and h5-HT_{1D} (BRL-15572) receptor ligands on guinea-pig and human 5-HT auto- and heteroreceptors. Naunyn Schmiedebergs Arch.Pharmacol. ***356*** 321. PMID: 9303568.

Saxena *et al* (1998) 5-HT_1-like receptors: a time to bid goodbye. TiPS ***19*** 311. PMID: 9745358.

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