

Product Name: SB 216641 hydrochloride

Catalog No.: 1242

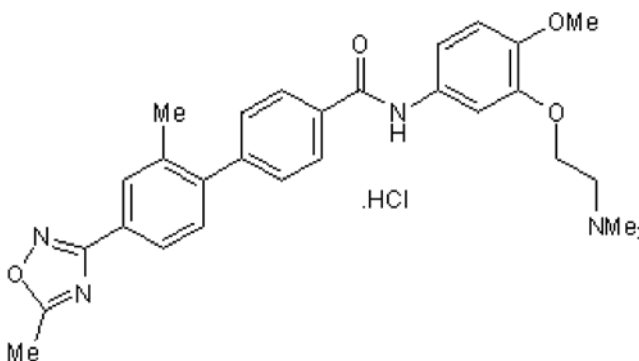
Batch No.: 6

CAS Number: 193611-67-5

IUPAC Name: *N*-[3-[3-(Dimethylamino)ethoxy]-4-methoxyphenyl]-2'-methyl-4'-(5-methyl-1,2,4-oxadiazol-3-yl)-[1,1'-biphenyl]-4-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₀N₄O₄.HCl.½H₂O
Batch Molecular Weight: 532.04
Physical Appearance: White solid
Solubility: water to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.16 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 63.21 | 6.06 | 10.53 |
| Found | 63.35 | 5.92 | 10.42 |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

A selective h5-HT_{1B} antagonist with approximately 25-fold selectivity over h5-HT_{1D} and little or no affinity for a range of other receptor types.

Physical and Chemical Properties:

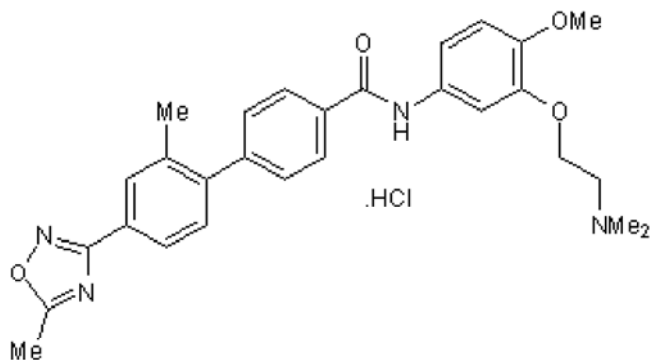
Batch Molecular Formula: C₂₈H₃₀N₄O₄.HCl.½H₂O

Batch Molecular Weight: 532.04

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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.

Licensing Information:

Sold with the permission of GlaxoSmithKline

References:

Hagan *et al* (1997) Stimulation of 5-HT_{1B} receptors causes hypothermia in the guinea pig. *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: 930567.

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

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