

**Product Name:** OSU 6162 hydrochloride

**Catalog No.:** 2599

**Batch No.:** 2

CAS Number: 156907-84-5

IUPAC Name: (3S)-3-[3-(Methylsulfonyl)phenyl]-1-propylpiperidine hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>23</sub>NO<sub>2</sub>S.HCl.¼H<sub>2</sub>O

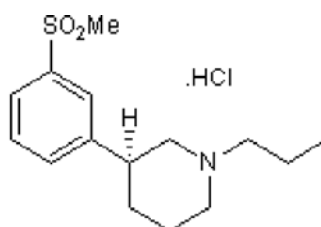
**Batch Molecular Weight:** 322.37

**Physical Appearance:** Pale brown solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.47 (Chloroform:Methanol [95:5])

**HPLC:** Shows 98.2% purity

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -6 (Concentration = 1, Solvent = Methanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	55.89	7.66	4.34
Found	55.96	7.57	4.36

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

**Product Name:** OSU 6162 hydrochloride

**Catalog No.:** 2599

**Batch No.:** 2

CAS Number: 156907-84-5

IUPAC Name: (3S)-3-[3-(Methylsulfonyl)phenyl]-1-propylpiperidine hydrochloride

**Description:**

OSU 6162 hydrochloride is a dopamine stabilizer; lacks high affinity for various neuroreceptors in vitro ( $K_i$  values are 447 and 1305 nM for  $D_2$  and  $D_3$  receptors respectively and  $> 1 \mu\text{M}$  for other targets). Exhibits high  $D_2$  receptor occupancy in vivo; highly active on dopamine synthesis and turnover. Induces stabilizing effects on psychomotor function in behavioral tests without inducing hypolocomotion or catalepsy.

**Physical and Chemical Properties:**

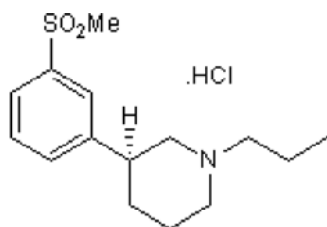
Batch Molecular Formula:  $\text{C}_{15}\text{H}_{23}\text{NO}_2\text{S}\cdot\text{HCl}\cdot\frac{1}{4}\text{H}_2\text{O}$

Batch Molecular Weight: 322.37

Physical Appearance: Pale brown solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**References:**

**Natesan et al** (2006) The DA stabilizers (S)-(-)-(3-methanesulfonyl-phenyl)-1-propyl-piperidine [(-)-OSU6162] and 4-(3-methanesulfonyl-phenyl)-1-propyl-piperidine (ACR16) show high in vivo  $D_2$  receptor occupancy, antipsychotic-like efficacy, and low potential J.Pharmacol.Exp.Ther. **318** 810. PMID: 16648369.

**Rung et al** (2005) The DArgic stabilizers (-)-OSU6162 and ACR16 reverse (+)-MK-801-induced social withdrawal in rats. Prog.Neuro-Psychopharm.Biol.Psychiat. **29** 833.

**Nichols et al** (2002) PNU-96391A (OSU6162) antagonizes the development of behavioural sensitization induced by DA agonists in a rat model for Parkinson's disease. Neuropharmacology **43** 817. PMID: 12384167.

**Storage:** Store at  $+4^\circ\text{C}$

**Solubility & Usage Info:**

water to 100 mM

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  $45\text{-}60^\circ\text{C}$  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  $-20^\circ\text{C}$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956