

## Avosentan

## Chemical Properties

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| CAS No.:          | 290815-26-8                                                            |
| Formula:          | C <sub>23</sub> H <sub>21</sub> N <sub>5</sub> O <sub>5</sub> S        |
| Molecular Weight: | 479.51                                                                 |
| Appearance:       | N/A                                                                    |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

## Biological Description

|             |                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------|
| Description | Avosentan (Ro 67-0565) is an effective and selective antagonist of the endothelin receptor (ETA receptor). |
|-------------|------------------------------------------------------------------------------------------------------------|

## Solubility Information

|            |                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 6 mg/mL (12.51 mM)<br>Water: Insoluble<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.085 mL | 10.427 mL | 20.855 mL |
| 5 mM  | 0.417 mL | 2.085 mL  | 4.171 mL  |
| 10 mM | 0.209 mL | 1.043 mL  | 2.085 mL  |
| 50 mM | 0.042 mL | 0.209 mL  | 0.417 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Baltatu OC, Iliescu R, Zaugg CE, Reckelhoff JF, Louie P, Schumacher C, Campos LA. Antidiuretic effects of the endothelin receptor antagonist avosentan. *Front Physiol.* 2012;3:103.
2. Konieczka K, Meyer P, Schoetzau A, Neutzner A, Mozaffarieh M, Flammer J. Effect of avosentan (SPP-301) in porcine ciliary arteries. *Curr Eye Res.* 2011 Feb;36(2):118-24.
3. Dieterle W, Hengelage T. Absolute bioavailability and pharmacokinetics of avosentan in man. *Int J Clin Pharmacol Ther.* 2009 Sep;47(9):587-94.
4. Mann JF, Green D, Jamerson K, Ruilope LM, Kuranoff SJ, Littke T, Viberti G; ASCEND Study Group. *J Am Soc Nephrol.* 2010 Mar;21(3):527-35.
5. Effect of SPP 301, an Endothelin Antagonist, on Intraocular Pressure in Glaucomatous Monkey Eyes By Wang, Rong-Fang; Podos, Steven M.; Serle, Janet B.; Baltatu, Ovidiu C. *From Current Eye Research* (2011), 36(1), 41-46.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481