



Product Specification Sheet

Product Name: Ormetoprim

Catalog Number: C6763

Technical information:

Chemical Formula: $C_{14}H_{18}N_4O_2$

CAS #: 6981-18-6

Molecular Weight: 274.32

Purity: > 98%

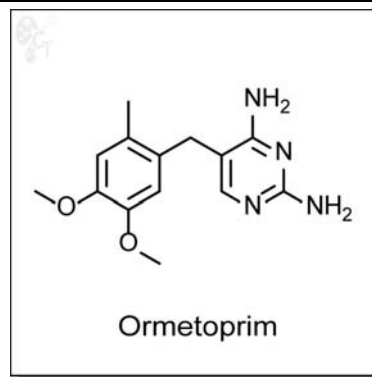
Appearance: white solid

Solubility: Soluble in DMSO up to 100 mM

Chemical Name: 2,4-Diamino-5-(6-methylveratryl)pyrimidine

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



- Handling:**
- To make 10 mM stock solution, add 0.365 mL of DMSO for each mg of Ormetoprim.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: Ormetoprim is a diaminopyrimidine-based inhibitor of dihydrofolate reductase, the enzyme responsible for NADPH-dependent reduction of 7,8-dihydrofolate to 5,6,7,8-tetrahydrofolate. (1) This inhibition results in the interference in folic acid production. In bacteria, Ormetoprim, weakly antibacterial by itself, can act as a potentiator by cotreatment with sulfadimethoxine, which in turn prevents the formation of folinic acid. (2)

- Reference:**
1. Manchand et al., Syntheses of Antibacterial 2,4-Diamino-5 benzylpyrimidines. Ormetoprim and Trimethoprim. J. Org. Chem. 1992, 57, 3531-3535.
 2. Boothe, D.M., Sulfonamides and Sulfonamide Combinations, Merck Manuals, March, 2012.

To reorder: <http://www.cellagentech.com/Ormetoprim/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.