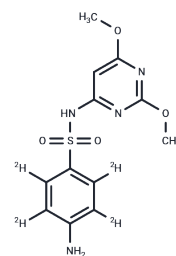


## Sulfadimethoxine-D4

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1020719-80-5  |
| Formula:          | C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>4</sub> S   |
| Molecular Weight: | 314.35  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | Sulfadimethoxine-D4 is a deuterium labeled Sulfadimethoxine (T1078) (Sulphadimethoxine). Sulfadimethoxine (T1078) is a sulfonamide antibiotic used to treat many infections. |
| Targets(IC50) | Antibacterial  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.1812 mL | 15.9058 mL | 31.8117 mL |
| 5 mM  | 0.6362 mL | 3.1812 mL  | 6.3623 mL  |
| 10 mM | 0.3181 mL | 1.5906 mL  | 3.1812 mL  |
| 50 mM | 0.0636 mL | 0.3181 mL  | 0.6362 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- AGUIRRE M, [Sulfadimethoxine in various infections. Results]. Rev Clin Esp. 1961 Sep 30;82:394-9.  
Guerard JJ, et al. Photochemical fate of sulfadimethoxine in aquaculture waters. Environ Sci Technol. 2009 Nov 15; 43(22):8587-92.

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