

## 1-Octacosanol

## Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 557-61-9                                                 |
| Formula:          | C <sub>28</sub> H <sub>58</sub> O                        |
| Molecular Weight: | 410.76                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|               |                                                                                                                                                                                                                                                                     |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | 1-Octacosanol (Octanosol) is a straight-chain aliphatic 28-carbon primary fatty alcohol that is used as a nutritional supplement. It is reported to possess cholesterol-lowering effects, antiaggregatory properties, cytoprotective use, and ergogenic properties. |
| Targets(IC50) | Others                                                                                                                                                                                                                                                              |

## Solubility Information

|            |                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble,<br>DMSO: < 1 mg/mL (insoluble or slightly soluble)<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.4345 mL | 12.1726 mL | 24.3451 mL |
| 5 mM  | 0.4869 mL | 2.4345 mL  | 4.869 mL   |
| 10 mM | 0.2435 mL | 1.2173 mL  | 2.4345 mL  |
| 50 mM | 0.0487 mL | 0.2435 mL  | 0.4869 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.

## Reference

- Cravotto, G., Calcio Gaudino, E., Barge, A., Binello, A., Albertino, A., & Aghemo, C. (2010). Synthesis of 1-octacosanol and GC-C-IRMS discrimination of samples from different origin. *Natural Product Research*, 24(5), 428-439. doi: 10.1080/14786410903194498
- Feng, S., Luo, Z., Zeng, F., Liu, S., & Khan, Z. (2015). Effect of water, metallic ions, fatty acid and temperature on oxidative stability of 1-octacosanol from sugarcane rind. *Food Chemistry*, 182, 171-177. doi: 10.1016/j.foodchem.2015.03.003

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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

Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481