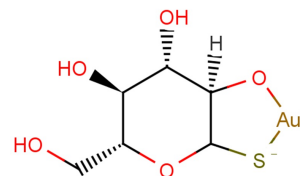


Aurothioglucose

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 12192-57-3 |
| Formula: | C ₆ H ₁₁ AuO ₅ S |
| Molecular Weight: | 392.18 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|---|
| Description | Aurothioglucose is a active-site TrxR1 inhibitor. |
| Targets(IC ₅₀) | Others: None |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 6 mg/mL (15.30 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.55 mL | 12.749 mL | 25.498 mL |
| 5 mM | 0.51 mL | 2.55 mL | 5.1 mL |
| 10 mM | 0.255 mL | 1.275 mL | 2.55 mL |
| 50 mM | 0.051 mL | 0.255 mL | 0.51 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. Watson WH, et al. Thioredoxin reductase-1 knock down does not result in thioredoxin-1 oxidation. Biochem Biophys Res Commun. 2008 Apr 11;368(3):832-6.
2. Britt RD Jr, et al. The thioredoxin reductase-1 inhibitor aurothioglucose attenuates lung injury and improves survival in a murine model of acute respiratory distress syndrome. Antioxid Redox Signal. 2014 Jun 10;20(17):2681-91.

Inhibitors · Natural Compounds · Compound Libraries

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