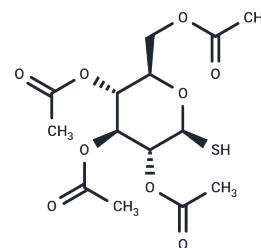


## 1-thio-β-D-Glucose Tetraacetate

## Chemical Properties

CAS No. :	19879-84-6
Formula:	C <sub>14</sub> H <sub>20</sub> O <sub>9</sub> S
Molecular Weight:	364.37
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	1-thio-β-D-Glucose tetraacetate is a building block. It has been used in the synthesis of aromatic glucosinolates with anti-inflammatory activity, as well as glucosylated poly (pentafluorostyrene) derivatives for coating magnetic iron oxide nanoparticles.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 10 mg/mL (27.44 mM), Sonication is recommended. DMF: 10 mg/mL (27.44 mM), Sonication is recommended. Ethanol: 0.5 mg/mL (1.37 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:4): 0.2 mg/mL (0.55 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (2.74 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	2.7445 mL	13.7223 mL	27.4446 mL
5 mM	0.5489 mL	2.7445 mL	5.4889 mL
10 mM	0.2744 mL	1.3722 mL	2.7445 mL
50 mM	0.0549 mL	0.2744 mL	0.5489 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

Vo, Q.V., Trenerry, C., Rochfort, S., et al. Synthesis and anti-inflammatory activity of aromatic glucosinolates *Bioorg. Med. Chem.* 21(19)5945-5954(2013)

Babiuch, K., Wyrwa, R., Wagner, K., et al. Functionalized, biocompatible coating for superparamagnetic nanoparticles by controlled polymerization of a thioglycosidic monomer *Biomacromolecules* 12(3)681-691(2011)

**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: 34 Washington Street, Wellesley Hills, MA 02481