

5-Thio-D-Glucose, Glucose transport inhibitor

| Catalog | Unit |
|---------------|-------|
| TBI1398-20MG | 20mg |
| TBI1398-100MG | 100mg |

Product Details

Formal Name: 5-Thio-5-deoxy-D-glucose
Alternate Names: 5-TG
Molecular Formula: C₆H₁₂O₅S
Formula Weight: 196.20
CAS Number: 20408-97-3
Purity: >97%
Formulation: powder
Solubility: Soluble in Water (up to 15 mg/ml).
Storage: RT
Stability: ≥ 2 years.

Applications

Glucose transport inhibitor

Functions

A potent competitive inhibitor of the cellular transport of glucose and glucose-mediated insulin release. May be used to induce a state of glucose deprivation in laboratory animals. Stimulates feeding in rat models. Induces Alzheimer-like changes in frontal cortex and hippocampus in rats. Elevates renal TGF-β1 at a dose that does not prevent streptozotocin diabetes in rats.

Application Procedures

First dissolved in Water (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in water may be stored at -20°C for up to 2 months.

For research use only.