

## BPTES, Glutaminase GLS1 inhibitor

Catalog	Unit
TBI5414-5MG	5 mg
TBI5414-25MG	25 mg

### Product Details

**Formal Name:** N,N'-[Thiobis(2,1-ethanediyl-1,3,4-thiadiazole-5,2-diyl)]bisbenzeneacetamide

**Molecular Formula:** C<sub>24</sub>H<sub>24</sub>N<sub>6</sub>O<sub>2</sub>S<sub>3</sub>

**Formula Weight:** 524.70

**CAS Number:** 314045-39-1

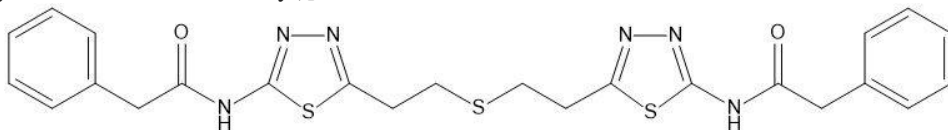
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (10 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Glutaminase GLS1 inhibitor

### Functions

A potent and selective allosteric inhibitor of kidney-type glutaminase (GLS1), IC<sub>50</sub> = 3.3 μM. Selective for GLS1 over GLS2, γ-glutamyl transpeptidase and glutamate dehydrogenase. Shuts down an alternative energy-generating glutaminolysis pathway in P493 cells under both glucose deprivation or hypoxia. Reduces the growth of P493 cell xenografts by 50% over a 10 day treatment. BPTES inhibition of glutamine utilization in cancer cells increases PD-L1 expression. Clears senescent cells and improves various age-related disorders in a geriatric mouse model.

### Application Procedures

First dissolved in DMSO (10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

**For research use only.**