

## PIT-1, PH Domain antagonist

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Catalog	Unit
TBI1192-10MG	10 mg
TBI1192-50MG	50 mg

### Product Details

**Formal Name:** N-[[3-Chloro-2-hydroxy-5-nitrophenyl]amino]thioxomethyl]benzamide

**Molecular Formula:** C<sub>14</sub>H<sub>10</sub>ClN<sub>3</sub>O<sub>4</sub>S

**Formula Weight:** 351.76

**CAS Number:** 53501-41-0

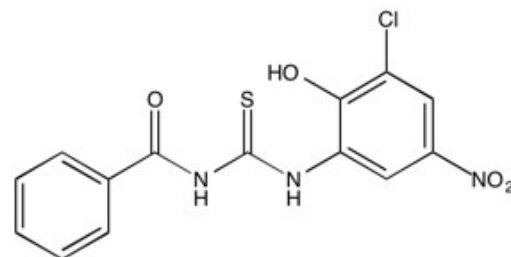
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 3 mg/ml).

**Storage:** RT

**Stability:** ≥ 1 year.



### Applications

PH Domain antagonist

### Functions

PH domain antagonist. Specifically blocks the binding of PIP3 to the Akt pleckstrin homology domain (IC<sub>50</sub> = 31 μM). Suppresses PI3K-PDK1-Akt-dependent phosphorylation. Induces apoptosis in PTEN-deficient U87mg glioblastoma cells (IC<sub>50</sub> = 37 μM). Inhibiting the binding of PIP3 to effector PH domains is new point of intervention in the PI3K signaling network<sup>2</sup>.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 3 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

**For research use only.**