

Catalog	Unit
TBI3238-5MG	5 mg
TBI3238-25MG	25 mg

Product Details

Formal Name: R,R'-2-Acetylamino-3-[4-(2-acetylamino-2-carboxyethylsulfanylthiocarbonylamino)-phenylthiocarbamoylsulfanyl]propionic acid, hydrate

Molecular Formula: C₁₈H₂₂N₄O₆S₄

Formula Weight: 518.70

CAS Number: 1133387-90-2

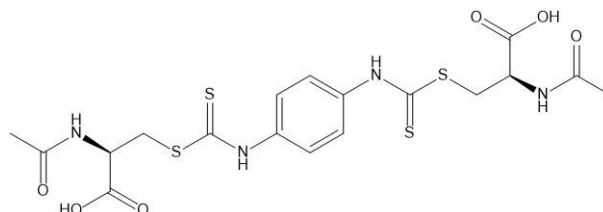
Purity: >95%

Formulation: powder

Solubility: Soluble in DMSO up to 50 mg/ml

Storage: -20°C

Stability: ≥ 2 years.



Applications

Glutathione & thioredoxin reductase inhibitor

Functions

Inhibits glutathione reductase and thioredoxin reductase, IC₅₀s=6.7 and 8.7 μM respectively, and impairs mitochondrial function. May be used to induce a cellular model of thiol oxidative stress. Enhances sensitivity of cancer cell lines to X-ray irradiation. Induces G2/M cell cycle arrest by inducing thiol oxidative stress resulting in α-tubulin S-glutathionylation-mediated microtubule depolymerization. Improves limb revascularization by glutathionylation and subsequent stabilization of HIF-1α.

Application Procedures

First dissolved in DMSO up to 50 mg/ml, then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.