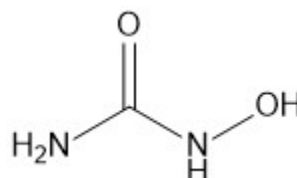


Hydroxyurea, Anticancer agent

Catalog	Unit
TBI3510-5G	5 g
TBI3510-25G	25 g

Product Details

Formal Name: N-hydroxyurea
Alternate Names: Hydroxycarbamide
Molecular Formula: CH₄N₂O₂
Formula Weight: 76.10
CAS Number: 127-07-1
Purity: >98%
Formulation: powder
Solubility: Soluble in Water (up to 50 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

Anticancer agent

Functions

Readily oxidized in vivo to free radical forms, which destroy the stable tyrosyl free radical of the metalloenzyme ribonucleotide reductase, suppressing deoxyribonucleotide production and blocking DNA synthesis and repair. Reduces cell proliferation, and causes S-phase arrest and death. Induces p53-dependent NF-κB target gene expression in U2OS cells expressing HA-RelA. Stimulates fetal hemoglobin production in vitro and in vivo. Allows for S phase enrichment of CHO cells with maintenance of viability for enhanced site-specific genome engineering. Anticancer and antiviral agent.

Application Procedures

First dissolved in Water (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in water may be stored at -20°C for up to 3 months.

For research use only.