

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

Hydroxyurea, CAS [[127-07-1]] FBM-10-3510

Article Name	Hydroxyurea, CAS [[127-07-1]]
Biozol Catalog Number	FBM-10-3510
Supplier Catalog Number	10-3510
Alternative Catalog Number	FBM-10-3510-5G, FBM-10-3510-25G
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Anticancer agent...
Molecular Weight	76.06
Purity	98% by HPLC, NMR (Conforms)
Form	White solid
CAS Number	[127-07-1]
Formula	CH ₄ N ₂ O ₂
Application Notes	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. ^{1,2} Reduces cell proliferation, and causes S-phase arrest and death. ³ Induces p53-dependent NF-kappaB target gene expression in U2OS cells expressing HA-RelA. ⁴ Stimulates fetal hemoglobin production in vitro and in vivo. ⁵ Allows for S phase enrichment of CHO cells with maintenance of viability for enhanced site-specific genome engineering. ⁶ Anticancer and antiviral agent.