



LKT Laboratories, Inc.

## Hydroxyurea

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### Product Information

Product ID H9715

CAS No. 127-07-1

**Chemical Name**

Synonym Hydroxycarbamide, Droxia, Hydrea, Litalir

Formula  $\text{CH}_4\text{N}_2\text{O}_2$

Formula Wt. 76.06

Melting Point 133-136°C

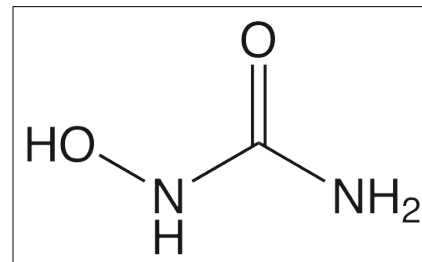
Purity ≥98%

Solubility Soluble in water or hot alcohol.

Store Temp 4°C

Ship Temp Ambient

**Description** Hydroxyurea exhibits anticancer chemotherapeutic and antiviral activities; it inhibits ribonucleotide reductase, limiting deoxyribonucleotide production and inhibiting DNA synthesis. This compound also treats sickle cell anemia, as it increases NO levels in blood through binding of hemoglobin and stimulates production of fetal hemoglobin which is not affected by the sickle-cell gene mutation. It also treats myeloproliferative disorders and chronic myelogenous leukemia (CML)



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
H9715	5 g	\$87.60
H9715	10 g	\$165.40
H9715	50 g	\$486.30
H9715	100 g	\$680.80

**References** Amaru Calzada A, Pedrini O, Finazzi G, et al. Givinostat and hydroxyurea synergize in vitro to induce apoptosis of cells from JAK2(V617F) myeloproliferative neoplasm patients. *Exp Hematol*. 2013 Mar;41(3):253-60.e2. PMID: 23111067.

Vankayala SL, Hargis JC, Woodcock HL. Unlocking the binding and reaction mechanism of hydroxyurea substrates as biological nitric oxide donors. *J Chem Inf Model*. 2012 May 25;52(5):1288-97. PMID: 22519847.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.