

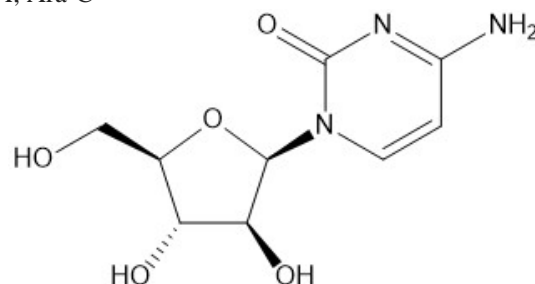
## Cytarabine, DNA damaging agent; antiviral

---

Catalog	Unit
TBI1268-500MG	500 mg
TBI1268-2G	2 g

### Product Details

**Formal Name:** 4-Amino-1-β-D-arabinofuranosyl-2(1H)-pyrimidinone  
**Alternate Names:** Arabinocytidine; Cytosine β-D-Arabinofuranoside; U-19920A; Ara-C  
**Molecular Formula:** C<sub>9</sub>H<sub>13</sub>N<sub>3</sub>O<sub>5</sub>  
**Formula Weight:** 243.20  
**CAS Number:** 147-94-4  
**Purity:** >98%  
**Formulation:** powder  
**Solubility:** Soluble in DMSO (up to 12 mg/ml), or in Water (up to 24 mg/ml).  
**Storage:** -20°C  
**Stability:** ≥ 1 year.



### Applications

DNA damaging agent; antiviral

### Functions

A nucleoside analog that interferes with DNA synthesis and transcription, particularly in tumor cells. Cellular enzymes convert it to its phosphorylated form, Ara-CTP, which disrupts DNA and RNA synthesis when polymerases attempt to incorporate it. For the same reasons, it is also employed as an antiviral. It inhibits proliferation of a variety of leukemic cell lines (IC<sub>50</sub>s 16-72 nM), but is used primarily against acute myeloid leukemia (AML).

### Application Procedures

First dissolved in DMSO (up to 12 mg/ml), or in Water (up to 24 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or water may be stored at -20°C for up to 1 month.

**For research use only.**