**5-Aza-2′-deoxycytidine**

****

**Technical literature is available at:** [**www.mesgenbio.com**](http://www.mesgenbio.com)**. E-mail MesGen Technical Services if you have questions on use of this system: tech@mesgenbio.com**

**Catalog Number : MP34690 Packaging Size :** 100mg □ 1g □

**CAS : 2353-33-5**

**Purity ≥ 99.5%**

**MW=228.21**

* **MF= C8H12N4O4**

**Description**

Decitabine is an epigenetic modifier that inhibits DNA methyltransferase activity which results in DNA demethylation (hypomethylation) and gene activation by remodeling "opening" chromatin. Genes are synergistically reactivated when demethylation is combined with histone hyperacetylation. 5′-Azadeoxycytidine causes DNA demethylation or hemi-demethylation. DNA demethylation can regulate gene expression by "opening" the chromatin structure detectable as increased nuclease sensitivity. This remodeling of chromatin structure allows transcription factors to bind to the promoter regions, assembly of the transcription complex, and gene expression.

**Solubility**

Acetic acid: water (1:1): soluble 50 mg/mL

**Storage**

Store at 2-8℃. Store in the dark.

***For Research Use Only. Not For Use In Diagnostic Procedures.***