

## Product Data Sheet

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Product Name: Decitabine-15N4

Cat. No.: GC47180

### Chemical Properties

Cas. No. N/A

SMILES O[C@H]1C[C@H]([15N]2C=[15N]C([15NH2])=[15N]C2=O)O[C@@H]1CO

Formula C<sub>8</sub>H<sub>12</sub>[<sup>15</sup>N]<sub>4</sub>O<sub>4</sub> M.Wt 232.2

Solubility DMSO: slightly soluble, Methanol: slightly, heated  
Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

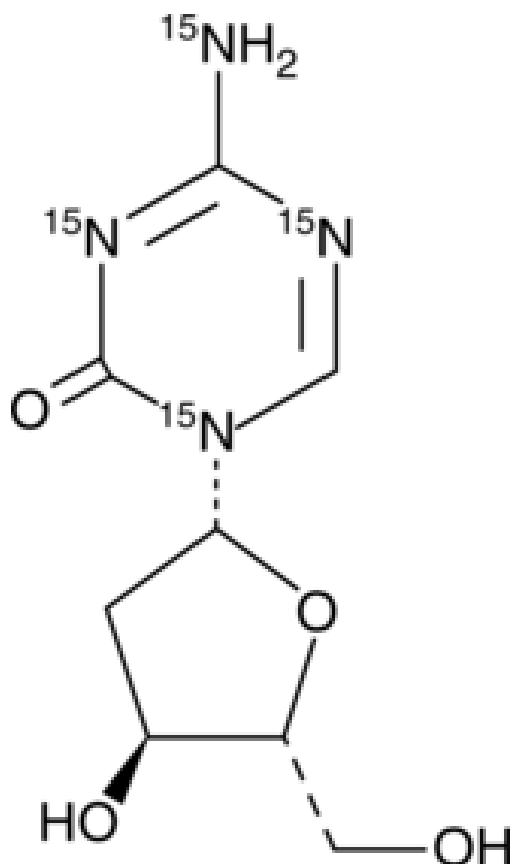
**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Structure



### Background

Decitabine- $^{15}\text{N}_4$  is intended for use as an internal standard for the quantification of decitabine . Decitabine is a 2'-deoxy analog of 5-azacytidine that induces dose-dependent inhibition of DNA

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methyltransferases and hypomethylation of DNA.<sup>1,2,3</sup> This action is useful in conditions characterized by DNA hypermethylation, as is found in myelodysplastic syndromes.<sup>4</sup>

1.Esteller, M.Epigenetics in cancerN. Engl. J. Med.3581148-1159(2008) 2.Lyko, F., and Brown, R.DNA methyltransferase inhibitors and the development of epigenetic cancer therapiesJ. Natl. Cancer Inst.97(20)1498-1506(2005) 3.Stresemann, C., Brueckner, B., Musch, T., et al.Functional diversity of DNA methyltransferase inhibitors in human cancer cell linesCancer Res.66(5)2794-2800(2006) 4.Ornstein, M.C., and Sekeres, M.A.Combination strategies in myelodysplastic syndromesInt. J. Hematol.9526-33(2012)

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