

**DATA SHEET**

**Product Name:** N4-Hydroxycytidine

**Catalog #:** CV-1029

**Alt:** CAS # 3258-02-4; 1-[(2R,3R,4S,5R)-3,4-Dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-4-(hydroxyamino)pyrimidin-2-one;  $\beta$ -D-N4-hydroxycytidine; NHC

**Molecular Mass:** 259.2

**Analysis:** >98% (HPLC); NMR (conforms)

**Supplied As:** White powder

**Resuspension:** May be dissolved in DMSO (25 mg/ml); or water (15 mg/ml, warm)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

**Description:** N4-Hydroxycytidine was originally identified as a mutagen effecting AT to GC base-pair transitions<sup>1</sup>. It has also been found to have antiviral properties against a broad range of viruses including hepatitis C<sup>2</sup>, norovirus<sup>3</sup>, Ebola virus<sup>4</sup>, influenza and respiratory syncytial viruses<sup>5</sup> and coronaviruses<sup>6</sup>. Active molecule in the antiviral pro-drug clinical candidate EIDD-2801<sup>7</sup>.

**References:**

1. Janion, C., and Glickman, B.W., (1980) *Mutat. Res.*, 72: 43
2. Stuyver, L.J., et al., (2003) *Antimicrob. Agents Chemother.*, 47: 244
3. Costantini, V.P., et al., (2012) *Antivir. Ther.*, 1: 981
4. Reynard, O., et al., (2015) *Viruses*, 7: 6233
5. Yoon, J.J., et al., (2018) *Antimicrob. Agents Chemother.*, 62: e00766-18
6. Pyrc, K., et al., (2006) *Antimicrob. Agents Chemother.*, 50: 2000
7. Toots, M., et al., (2019) *Sci. Transl. Med.*, 11: eaax5866

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