Revision 1			
Beta-d-N4-Hydroxycytidine	Ce T E	Cell Signaling	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
∞ 5 mg	Support:	877-678-TECH (8324)	
	Web:	info@cellsignal.com cellsignal.com	
8	3 Trask Lane Danvers Massachusetts 01923 USA		

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Beta-d-N4-Hydroxycytidine, also known as EIDD-1931, is a nucleic acid base analog and a specific AT to GC mutagen formed by the treatment of nucleoside cytidine with hydroxylamine (1). Beta-d-N4- Hydroxycytidine acts as a competitive substrate for viral encoded RNA polymerase and has demonstrated broad <i>in vitro</i> antiviral activity, including Chikungunya virus, Ebola, and Hepatitis C (2-4). Beta-d-N4-Hydroxycytidine demonstrated an IC ₅₀ value of 0.1 μM and an IC ₉₀ value of 6 μM in SARS- CoV infected Vero cells (5,6).
C ₉ H ₁₃ N ₃ O ₆
259.2 g/mol
>98%
3258-02-4
Soluble in DMSO at 25 mg/ml or water at 15 mg/ml with slight warming.
Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. <i>Aliquot to avoid multiple freeze/thaw cycles.</i>
Beta-d-N4-Hydroxycytidine is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 5 mg of powder in 1.28 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.
1. Janion, C. and Glickman, B.W. (1980) <i>Mutat Res</i> 72, 43-7. 2. Ehteshami, M. et al. (2017) <i>Antimicrob Agents Chemother</i> 61, e02395-16. doi: 10.1128/AAC.02395-16. 3. Reynard, O. et al. (2015) <i>Viruses</i> 7, 6233-40. 4. Stuyver, L.J. et al. (2003) <i>Antimicrob Agents Chemother</i> 47, 244-54. 5. Barnard, D.L. et al. (2006) <i>Antivir Chem Chemother</i> 17, 275-84. 6. Barnard, D.L. et al. (2004) <i>Antivir Chem Chemother</i> 15, 15-22.
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