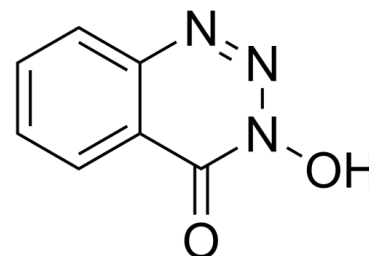


Data Sheet

Product Name:	HODHBt
Cat. No.:	CS-0015278
CAS No.:	28230-32-2
Molecular Formula:	C ₇ H ₅ N ₃ O ₂
Molecular Weight:	163.13
Target:	HIV; STAT
Pathway:	Anti-infection; JAK/STAT Signaling; Stem Cell/Wnt
Solubility:	DMSO : 500 mg/mL (3065.04 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

HODHBt (HOOBt) inhibits **STAT5-SUMO** interaction by blocking SUMOylation of phosphorylated **STAT5**. HODHBt enhances the magnitude of IL-15 signaling and significantly increases the natural killer (NK) cell cytotoxicity phenotype and function and the generation of cytokine-induced memory-like (CIML) natural killer (NK) cells. HODHBt can be used for research of HIV-infection and cancer^[1]. **In Vitro:**HODHBt (100 μM; 24 h, and 48 h respectively) increases IL-15-mediated STAT phosphorylation in NK cells and enhances the cytotoxic profile of NK cells^[1].

HODHBt (100 μM; 24 h) enhances IL-15-mediated (100 ng/mL) cytotoxicity of NK cells against HIV-infected cells (K562 cells)^[1]. HODHBt (100 μM; 24 h) enhances IL-15-mediated (100 ng/mL, 6 h) cytotoxicity of NK cells against cancer cell lines (A2780 and U877; OCILy1 and OCILy10)^[1].

HODHBt (100 μM; 7 d) results in enhanced memory response upon recall in generation of human CIML NK cells in vitro^[1].

References:

[1]. Macedo AB, et al. The HIV Latency Reversal Agent HODHBt Enhances NK Cell Effector and Memory-Like Functions by Increasing Interleukin-15-Mediated STAT Activation. J Virol. 2022 Aug 10;96(15):e0037222.

CAIndexNames:

1,2,3-Benzotriazin-4(3H)-one, 3-hydroxy-

SMILES:

O=C1N(O)N=NC2=CC=CC=C12

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

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