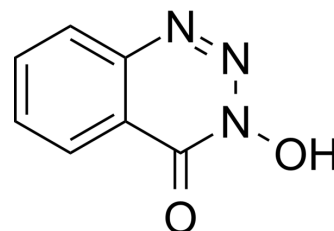


HODHBt

Cat. No.:	HY-Y0493		
CAS No.:	28230-32-2		
Molecular Formula:	C ₇ H ₅ N ₃ O ₂		
Molecular Weight:	163.13		
Target:	STAT; HIV		
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 500 mg/mL (3065.04 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.1301 mL	30.6504 mL	61.3008 mL
	5 mM	1.2260 mL	6.1301 mL	12.2602 mL
	10 mM	0.6130 mL	3.0650 mL	6.1301 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

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].

IC₅₀ & Target

STAT5

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].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

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