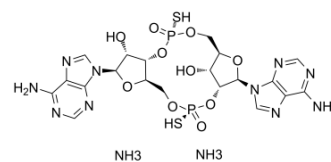


ADU-S100 enantiomer ammonium salt

Cat. No.:	HY-12885C		
Molecular Formula:	C ₂₀ H ₃₀ N ₁₂ O ₁₀ P ₂ S ₂		
Molecular Weight:	724.6		
Target:	Others		
Pathway:	Others		
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 : 50 mg/mL (69.00 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.3801 mL	6.9004 mL	13.8007 mL
5 mM	0.2760 mL	1.3801 mL	2.7601 mL
10 mM	0.1380 mL	0.6900 mL	1.3801 mL

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

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.5 mg/mL (3.45 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.5 mg/mL (3.45 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.5 mg/mL (3.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ADU-S100 enantiomer ammonium salt (MIW815 enantiomer ammonium salt) is the less active enantiomer of ADU-S100. ADU-S100 is an activator of stimulator of interferon genes (STING)^[1].

In Vitro

STING is a transmembrane protein localized to the endoplasmic reticulum that undergoes a conformational change in response to direct binding of cyclic dinucleotides, resulting in a downstream signaling cascade involving TBK1 activation, IRF-3 phosphorylation, and production of IFN-β and other cytokines. The direct activation of the STING pathway might be an effective therapeutic strategy to promote broad tumor-initiated T cell priming against tumor antigen repertoire^[1].

REFERENCES

[1]. Corrales L, et al. Direct Activation of STING in the Tumor Microenvironment Leads to Potent and Systemic Tumor Regression and Immunity. Cell Rep. 2015 May 19;11(7):1018-30.

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

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