## HDMAPP triammonium

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Cat. No.: CAS No.: Molecular Formula:	HY-145498 443892-56-6 C <sub>5</sub> H <sub>21</sub> N <sub>3</sub> O <sub>8</sub> P <sub>2</sub>	NH <sub>3</sub>
Molecular Weight: Target:	313.18 TNF Receptor	$\rm NH_3$
Pathway:	Apoptosis	NH <sub>3</sub>
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

### SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.1931 mL	15.9653 mL	31.9305 mL
		5 mM	0.6386 mL	3.1931 mL	6.3861 mL
		10 mM	0.3193 mL	1.5965 mL	3.1931 mL

BIOLOGICAL ACTIV	ИТҮ		
Description		s a potent phosphoantigen in the ammonium form and the pyrophosphate form of (E)-HDMAPP. activator of $\gamma\delta$ T cells and can induce T cell stimulation in vitro (EC <sub>50</sub> =0.39 nM, TNF- $\alpha$ ) <sup>[1]</sup> .	
IC <sub>50</sub> & Target	TNFRSF1A		
In Vitro	and has stimulatory bioa	oonium (compound 3E) (2 μM) increases TNF-α release levels in primary polyclonal human Vγ9Vδ2 T cells cory bioactivity <sup>[1]</sup> . ependently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	model <sup>[1]</sup> .	compound 3E) (0.02-2.5 mg/kg; iv; 15 days) significantly increases γδ cells in a cynomolgus monkey atly confirmed the accuracy of these methods. They are for reference only. Nonhuman Primate Model in Cynomolgus <sup>[1]</sup> 0.02 mg/kg, 0.1 mg/kg, 0.5 mg/kg, 2.5 mg/kg	

# Product Data Sheet

Administration:	Intravenous injection; once with daily s.c. low doses IL-2 to sustain γδ-T-cell proliferation for 15 days
Result:	Significantly increased $\gamma\delta$ -cells in vivo at 0.02 mg/kg. Reached maximal effect at 2.5 mg/kg.

### REFERENCES

[1]. Boëdec A, et al. Synthesis and biological activity of phosphonate analogues and geometric isomers of the highly potent phosphoantigen (E)-1-hydroxy-2-methylbut-2enyl 4-diphosphate. J Med Chem. 2008 Mar 27;51(6):1747-54.

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

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