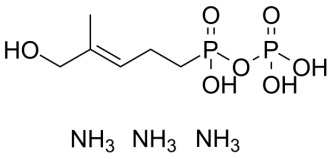
(E)-C-HDMAPP ammonium

Cat. No.:	HY-134950
CAS No.:	933030-60-5
Molecular Formula:	$C_6H_{23}N_3O_7P_2$
Molecular Weight:	311.21
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(E)-C-HDMAPP ammonium, is a potent phosphoantigen in ammonium form as well as a pyrophosphonate form of (E)-HDMAPP. (E)-C-HDMAPP is also an effective activator of γδ-T cells, induces T-cell stimulatory responses in vitro (EC_{50}=0.91 nM for TNF-α release)[1][2].
IC_{50} & Target	TNFRSF1A
In Vitro	(E)-C-HDMAPP (compound 5E) (2 μM) increases the release of TNF-α in primary polyclonal human Vγ9Vδ2 T-cell with stimulating bioactivity[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	(E)-C-HDMAPP (compound 5E) (0.02-10 mg/kg; i.v.; 15 d) provides a significant increase in γδ-cells in cynomolgus model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Nonhuman Primate Model in Cynomolgus[1]
Dosage:	0.02 mg/kg, 0.1 mg/kg, 0.5 mg/kg, 2.5 mg/kg, 5 mg/kg, and 10 mg/kg
Administration:	Intravenous injection; once with daily s.c. low doses IL-2 to sustain γδ-T-cell proliferation, for 15 days
Result:	Significantly increased γδ-cells in vivo at 0.02 mg/kg. Reached maximal effect at 5 mg/kg and 10 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-2-enyl 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA