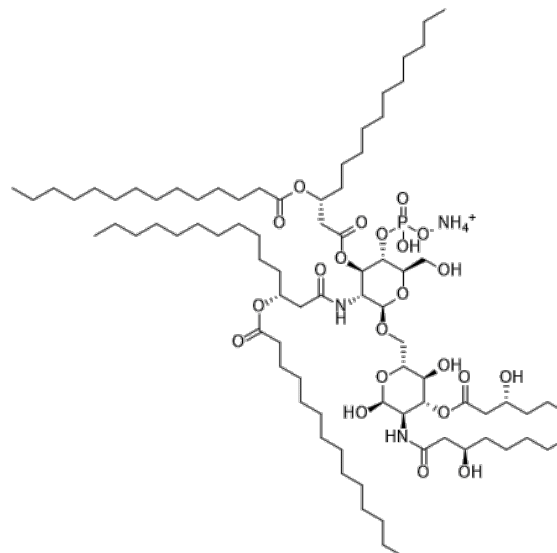


**Product Name** : Monophosphoryl lipid A  
**Cat. No.** : PC-28403  
**CAS No.** : 1246298-63-4  
**Molecular Formula** :  $C_{96}H_{184}N_3O_{22}P$   
**Molecular Weight** : 1763.47  
**Target** : Toll-like Receptor (TLR)  
**Solubility** : 10 mM in DMSO



### Biological Activity

Monophosphoryl lipid A (MPLA) is a nontoxic derivative of lipopolysaccharide (LPS) and TRIF-biased toll-like receptor 4 (TLR4) agonist, enhances vaccine adjuvant effects and promotes Th1-type immune response and immunostimulatory properties.

### References

- Tiberio L, et al. Vaccine. 2004 Mar 29;22(11-12):1515-23.  
Bevaart L, et al. Cancer Res. 2006 Feb 1;66(3):1261-4.  
Cekic C, et al. J Biol Chem. 2009 Nov 13;284(46):31982-91.  
Mata-Haro V, et al. Science. 2007 Jun 15;316(5831):1628-32.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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