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## Monophosphoryl Lipid A

National Cancer Institute

## Source

National Cancer Institute. <u>Monophosphoryl Lipid A</u>. NCI Thesaurus. Code C87754.

A modified form of lipid A, the biologically active part of Gram-negative bacterial lipopolysaccharide (LPS) endotoxin, and a Toll-like receptor 4 (TLR4) agonist, with potential immunostimulatory activity. As a vaccine adjuvant, monophosphoryl lipid A (MPLA) stimulates both cellular and humoral responses to the vaccine antigen. Compared to LPS, MPLA exerts a similar immunostimulatory activity but with reduced toxicity.

Qeios ID: GKCZBB · https://doi.org/10.32388/GKCZBB