LPS from Salmonella abortus equi S-form (TLRGRADE®) (Ready-to-Use) (Biotin)

Useful reagent for evaluating LPS binding and cell activation in white blood cells.

TLR4 activator

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ALX-581-150-R500	500µl

Manuals, SDS & CofA View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Do not ingest. Wear gloves and mask when handling this product! Avoid contact through all modes of exposure. LPS compounds are highly pyrogenic. Avoid accidental injection; extreme care should be taken when handling in conjunction with hypodermic syringes. Use must be restricted to qualified personnel. After opening, prepare aliquots and store at -20°C.
Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Lipopolysaccharide from Salmonella abortus equi S-form
Couple Target	TLR, TLR4
Couple Type	Activator, Ligand
Formulation	Liquid. Sterile, *ready-to-use* solution in pyrogen-free double-distilled water.
Purity	Absence of dectectable protein or DNA contaminants with agonistic TLR activity.
Source	Smooth (S)-form LPS, isolated and purified from *Salmonella abortus equi* by modification of the phenol water extraction and PCP method. LPS-Biotin was prepared using the biotin reagent biotinamidocaproate N-hydroxysuccinimide ester. Briefly, LPS at 10mg/ml in distilled water was mixed with biotin reagent in sodium bicarbonate buffer. The reaction mixture was stirred, dialyzed extensively against distilled water in the dark, and sterile filtered.

Technical Info / Product Notes

Note: As the biotinylation reagent and standard biotinylation protocol favors protein/peptide (contaminants) about 1000-fold over sugar as a target, it is mandatory to use >99.9% pure LPS to exclude the biotinylation of contaminants. These are usually present in many commercial LPS preparations and would lead to misleading observations of the tracking/staining with the reagents. TLRGRADE® LPS fulfills such high quality requirements and the biotinylation procedure is chosen to preserve TLR4 (Toll-like receptor 4) binding and cellular activation using TLRGRADE® LPS-Biotin.

For the unconjugated LPS, please see ALX-581-009).

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