RPM0001

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LPS (Lipopolysaccharides)

Catalog No.: RPM0001 2 Publications

Sequence Information

Species 用于激活免疫细胞（如体外培养巨噬细胞时诱导细胞因子分泌）等。

Gene ID

Swiss Prot

Tags

Synonyms

LPS; Lipopolysaccharides; 脂多糖

Product Information

Source

Purification

≥ 99%

Endotoxin

Formulation

Reconstitution

Background

脂多糖（Lipopolysaccharide，LPS）是革兰氏阴性细菌外膜的主要成分，又称内毒素，由类脂 A、核心多糖和 O-特异性链三部分组成。LPS 是一种高免疫原性抗原，主要通过TLR4（Toll-like receptor 4）发挥作用，引起免疫刺激的级联反应。 本产品为纯度≥99%，外观呈白色至类白色的固体粉末，来源于Escherichia coli 055:B5， 可用于诱导细胞或诱导疾病研究的动物模型，如炎症反应等相关实验。

Basic Information

Description

脂多糖（Lipopolysaccharide，LPS）是革兰氏阴性细菌外膜的主要成分，又称内毒素，由类脂 A、核心多糖和 O-特异性链三部分组成。LPS 是一种高免疫原性抗原，主要通过TLR4（Toll-like receptor 4）发挥作用，引起免疫刺激的级联反应。

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

Store at 2-8℃
Avoid repeated freeze/thaw cycles.

Contact

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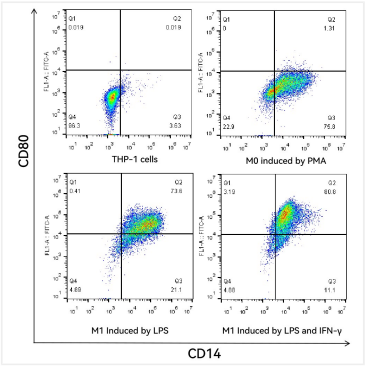
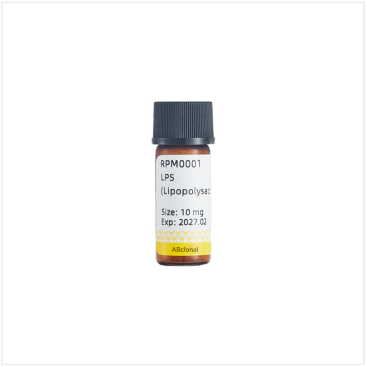
Validation Data





PMA (RPM0015, 10 ng/mL, 24 h) induced differentiation of THP-1 cells into M0 macrophages, with increased expression of the cell surface marker CD14(A25196). LPS (100 ng/mL, 72 h) and IFN-gamma(RP01038) induced polarization of THP-1 M0 macrophages into M1-type, with increased expression of the cell surface marker CD80(A23729).

For research use only. Not for therapeutic or diagnostic purposes.
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