Biotinylated Lipopolysaccharide from *E. Coli O111:B4*

Catalog # 6108

*For Research Use Only - Not Human or Therapeutic Use*

**DESCRIPTION:**
Biotinylated Lipopolysaccharide (LPS) from *E. Coli O111:B4*

Lipopolysaccharide (LPS), also known as endotoxin, is the major structural component of the outer membrane of gram-negative bacteria. This glycolipid stimulates the host immune system and plays pathological roles in inflammatory diseases such as bacterial sepsis, inflammatory bowel disorders, lung disease, periodontal disease, and asthma (1-4).

**APPLICATION:**
To facilitate studies on host recognition of LPS, a biotinylated LPS and a streptavidin conjugated probe (enzyme or fluorochrome) can be used for identifying LPS ligands in many applications such as: enzyme immunoassay, western blot, flow cytometry, and fluorescence microscopy (5). In addition, LPS ligand interactions can be evaluated in a pull-down assay as demonstrated with HMGB1: a late stage mediator of endotoxin shock (6). Chondrex, Inc. also provides purified bovine HMGB1 for use as a positive control for these LPS binding assays (Cat # 9050).

**QUANTITY:**
0.1 mg

**FORM:**
Lyophilized powder

**SOURCE:**
*E. Coli O111:B4*

**STORAGE:**
-20°C

**STABILITY:**
2 years

**NOTES:**
N/A

**REFERENCES:**


