## PRODUCT INFORMATION

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|---|---|
| **Target** | TLR5 |
| **Synonyms** | MELIOS; SLE1; SLEB1; TIL3 |
| **Description** | Human TLR5 full length protein-MNP |
| **Delivery** | In Stock |
| **Uniprot ID** | O60602 |
| **Expression Host** | HEK293 |
| **Protein Families** | Druggable Genome, Transmembrane |
| **Protein Pathways** | Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway |
| **Molecular Weight** | The human full length TLR5 protein has a MW of 97.8 kDa |
| **Formulation & Reconstitution** | Lyophilized from PBS. Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. |
| **Storage&Shipping** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| **Background** | Toll-like receptor (TLR) family plays a fundamental role in pathogen recognition and activation of innate immune responses. These receptors recognize distinct pathogen-associated molecular patterns that are expressed on infectious agents. The protein encoded by this gene recognizes bacterial flagellin, the principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF-kappaB, which in turn activates a host of inflammatory-related target genes. Mutations in this gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |

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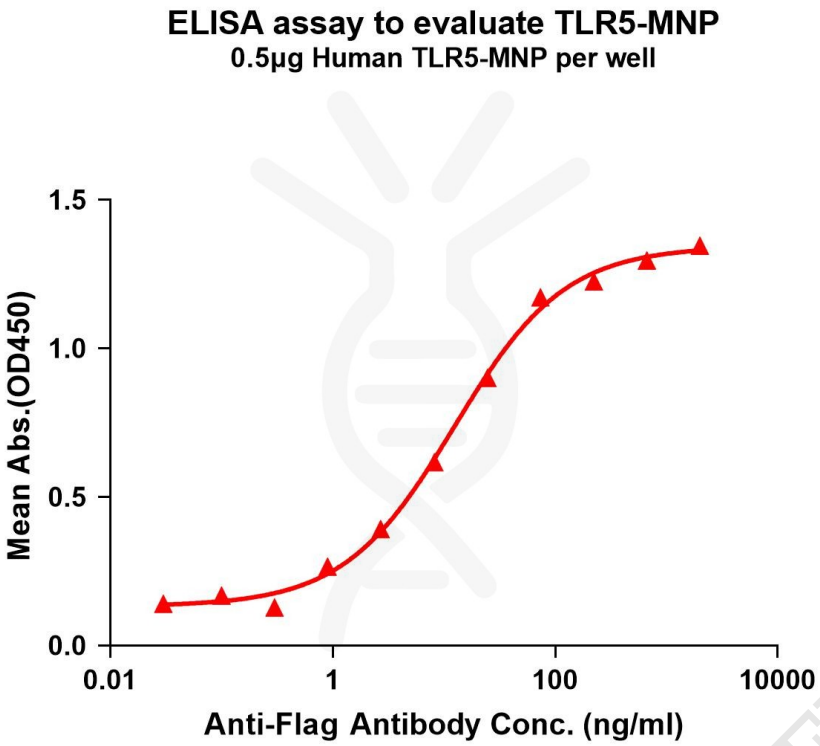



Figure 1. Elisa plates were pre-coated with 0.5μg/per well purified human TLR5 full length membrane nanoparticles. Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR5 full length membrane nanoparticles is 12.46ng/ml.

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