

**HUMAN TLR5 FULL LENGTH PROTEIN****Cat.#:** 11124**Product Name:** Human TLR5 Full Length Protein**Size :** 10 µg, 50 µg and 100 µg**Synonyms:** MELIOS; SLE1; SLEB1; TIL3**Target:** TLR5**UNIPROT ID:** O60602**Description:** Human TLR5 full length protein-synthetic nanodisc

**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- $\kappa$ B, 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.

**Species/Host:** HEK293**Molecular Weight:** The human full length TLR5 protein has a MW of 97.8 kDa

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**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.

ELISA assay to evaluate TLR5-Nanodisc  
0.2µg Human TLR5-Nanodisc per well

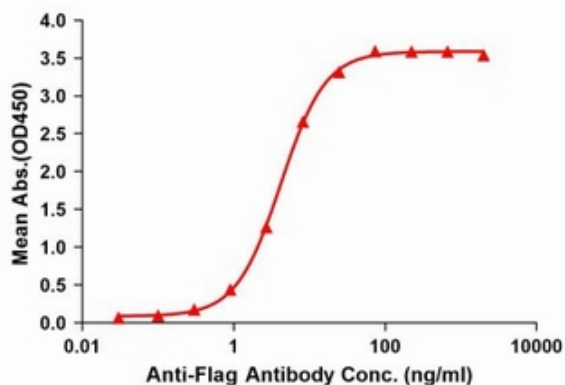


Figure1. Elisa plates were pre-coated with Flag Tag TLR5-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR5-Nanodisc is 4.191ng/ml.



Figure2. Human TLR5-Nanodisc, Flag Tag on SDS-PAGE