

**HDFP879**

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## Product Information

<b>Product SKU:</b>	HDFP879	<b>Expression Host:</b>	HEK293	<b>Size:</b>	10µg
<b>Target:</b>	TLR5	<b>Tag:</b>	C-Flag&Strep Tag		

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## Additional Information

<b>Conjugate:</b>	Unconjugated	<b>Uniprot ID:</b>	O60602
<b>Molecular Weight:</b>	The human full length TLR5-Strep protein has a MW of 97.8 kDa		

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## Protein Information

**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.

**Synonyms:** MELIOS; SLE1; SLEB1; TIL3

**Protein Description:** Human TLR5-Strep full length protein-synthetic nanodisc

**Formulation:** 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. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.

**Protein Pathways:** Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway.

**Protein Families:** Druggable Genome, Transmembrane.

**Usage:** Research use only

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**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.

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