

Human TLR7 Full-Length Bioactive Membrane Protein

HDFP125



Product Information

Product SKU:

HDFP125

Size:

10µg

Molecular Weight:

The human full length TLR7 protein has a MW of 120.9 kDa

Expression System:

HEK293

Uniprot:

Q9NYK1

Target:

TLR7

Antibody Information

Background:

The protein is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. The human TLR family comprises 11 members. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. For the recognition of structural components in foreign microorganisms, the various TLRs exhibit different patterns of expression as well; in this way for example, TLR-3, -7, and -8 are essential in the recognition of single-stranded RNA viruses. TLR7 senses single-stranded RNA oligonucleotides containing guanosine- and uridine-rich sequences from RNA viruses, a recognition occurring in the endosomes of plasmacytoid dendritic cells and B cells.

Description:

Human TLR7 full length protein-synthetic nanodisc

Protein Family:

Druggable Genome, Transmembrane

Protein Pathways:

Toll-like receptor signaling pathway

Synonyms:

IMD74; TLR7-like

Storage:

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.

Usage:

Research use only

Form:

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.

Contact Details | Dublin, Ireland

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