

TLR8 Protein, Human, Recombinant (His)

General Information

Synonyms: CD288;Toll-like receptor 8;TLR8

Protein Construction: 27-827

Species: Human

Expression Host: P. pastoris (Yeast)

Accession: Q9NR97

Molecular Weight: 93.5 kDa (predicted)

AA Sequence:

EENFSRSYPCDEKKQNDSVIAECSNRRQLQEVPTVVGKYVTELDLSDNFITHITNESFQGLQNLTKINLNHNPN
VQHQNNGNPGIQSNGLNITDGAFLNLKLNRELLLEDNQLPQIPSGLPESLTELSQLQNNIYNITKEGISRLINLNKLN
YLAWNCYFNKVCEKTNIEDGVFETLTNLELLSLSFNLSHVPPKLPSSLRKLFSLNTQIKYISEEDFKGLINLTLDD
LSGNCPRCFNAPFCVPCDGGASINIDRFQNLTLQLRYLNLSSLSLRKINAAWFKNMPHLKVLDLEFNLYLVG
EIASGAFLTMLPRLEILDLSFNLIKGSYPQHINISRNFSKLLSLRALHLRGYVFQELREDDFQPLMQLPNLSTINL
GINFIKQIDFKLFQNFNSLEIILYSENRIPLVKDTRQSYANSSSFQRHIRKRRSTDFFEDPHSNFYHFTRPLIKPQ
CAAYGKALDLSLNSIFFIGPNQFENLPDIACLNLSANSNAQVLSGTEFSAIPHVKYLDLTNNRLDFDNASALTE
LSDLEVLDSLNSHYFRIAGVTHHLEFIQNFTNLKVLNLSHNNIYTLTDKYNLESKSLVELVFGNRLDILWNDD
DNRYISIFKGLKNLRLDLSLNLKHIPNEAFLNLPASLTELHINDNMLKFFNWTLQFPRLELLDLRGNKLLF
LTDLSLSDFTSSLRTLLLSHNRISHLPSGFLSEVSSLKHLDLSSNLLKTINKSALETKTITTKLSMLELHGNPFECTCD
IGDFRRWMDEHLNVKIPRLVDVICASPGDQRGKSIVSLELTTCVSDVT

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Endosomal receptor that plays a key role in innate and adaptive immunity. Controls host immune response against pathogens through recognition of RNA degradation products specific to microorganisms that are initially processed by RNASET2. Recognizes GU-rich single-stranded RNA (GU-rich RNA) derived from SARS-CoV-2, SARS-CoV-1 and HIV-1 viruses. Upon binding to agonists, undergoes dimerization that brings TIR domains from the two molecules into direct contact, leading to the recruitment of TIR-containing downstream adapter MYD88 through homotypic interaction. In turn, the Myddosome signaling complex is formed involving IRAK4, IRAK1, TRAF6, TRAF3 leading to activation of downstream transcription factors NF-kappa-B and IRF7 to induce proinflammatory cytokines and interferons, respectively.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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