

TLR3 Protein (Primary Amine Labeling), Human, Recombinant (His), Biotinylated

General Information

Synonyms:	IIAE2;TLR3;CD283
Protein Construction:	Ser23-Glu703
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6PCD4
Molecular Weight:	78.7 kDa (predicted). Due to glycosylation, the protein migrates to 100-120 kDa based on Tris-Bis PAGE result.

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:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

TLR3 is expressed in the central nervous system (CNS), where it is required to control HSV-1, which spreads from the epithelium to the CNS via cranial nerves. TLR3 is also expressed in epithelial and dendritic cells, which apparently use TLR3-independent pathways to prevent further dissemination of HSV-1 and to provide resistance to other pathogens in TLR3-deficient patients. Human TLR3 appears to be redundant in host defense to most microbes but is vital for natural immunity to HSV-1 in the CNS, which suggests that neurotropic viruses have contributed to the evolutionary maintenance of TLR3.

Reference

Zhang SY, et al. TLR3 deficiency in patients with herpes simplex encephalitis. *Science*. 2007 Sep 14;317(5844):1522-7. doi: 10.1126/science.1139522. PMID: 17872438.

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