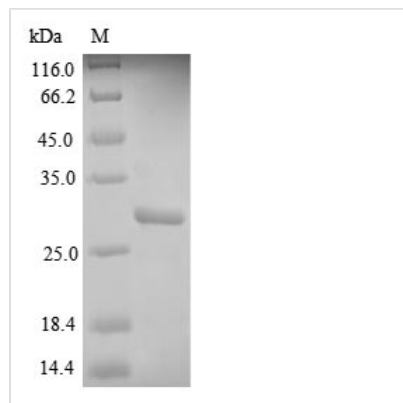




Recombinant Human HLA class II histocompatibility antigen,DQ beta 1 chain (HLA-DQB1), partial

Product Code	CSB-EP355782HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P01920
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	RDSPEDFVYQFKAMCYFTNGTERVRYVTRYIYNREEYARFSDSDVEVYRAVTPL GPPDAEYWNSQKEVLERTRAELDTVCRHNYQLELRRTTLQRRVEPTVTISPSRT EALNHHNLLVCSVTDYFPAQIKVRWFRNDQEETTGVVSTPLIRNGDWTFQILV MLEMTPQHGDVYTCHVEHPSLQNPITVEWRAQSESA
Lead Time	3-7 business days
Research Area	Immunology
Source	E.coli
Gene Names	HLA-DQB1
Protein Names	Recommended name: HLA class II histocompatibility antigen, DQ beta 1 chain Alternative name(s): MHC class II antigen DQB1
Expression Region	33-227aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	27.0 kDa
Protein Description	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The region for expressing recombinant Human HLA-DQB1 contains amino acids 33-227. The calculated molecular weight for this HLA-DQB1 protein is 27 kDa. This HLA-DQB1 recombinant protein is manufactured in e.coli. The N-terminal 6xHis tag was smoothly integrated into the coding gene of HLA-DQB1, which enables a simple process of detecting and purifying the HLA-DQB1 recombinant protein in the following steps.

The human HLA class II histocompatibility antigen, DQ beta 1 chain (HLA-DQB1), is a crucial component of the major histocompatibility complex (MHC) class II molecules, which play a pivotal role in the immune system. HLA-DQB1 is highly polymorphic, with multiple alleles contributing to individual variability in immune responses. It is primarily expressed on the surface of antigen-presenting cells, such as macrophages, dendritic cells, and B cells. HLA-DQB1 is involved in presenting peptide antigens to CD4⁺ T lymphocytes, initiating the adaptive immune response. This process is essential for immune surveillance, as it allows the immune system to distinguish between self and non-self antigens. The polymorphic nature of HLA-DQB1 is crucial for its ability to present a wide array of antigens, enabling the immune system to recognize and respond to diverse pathogens.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.