

## LY6D Protein, Human, Recombinant (mFc)

### General Information

Synonyms:	E48;lymphocyte antigen 6 complex, locus D;Ly-6D
Protein Construction:	A DNA sequence encoding the human LY6D (CAA73189.1) (Met1-His97) was expressed with the Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Leu 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	CAA73189.1
Molecular Weight:	34.7 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. 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/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

**Stability & Storage:**  
It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

LY6D (Lymphocyte Antigen 6 Family Member D) is a Protein Coding gene. It may act as a specification marker at the earliest stage specification of lymphocytes between B- and T-cell development. Marks the earliest stage of B-cell specification. The expression of LY6D is induced in MCF10A cells by X-ray irradiation. The induction of LY6D expression is triggered through a pathway regulated by ATM, CHK2, and p53. This method is a new Ab-directed proteomic strategy for the analysis of membrane proteins and applies to various biological phenomena in

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situations in which both target molecule-expressing cells and nonexpressing cells are available. Diseases associated with LY6D include Alzheimer's Disease 16 and Inferior Myocardial Infarction.

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