

PILRB Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	FDFACT;paired immunoglobulin-like type 2 receptor beta;paired immunoglobulin-like type 2 receptor β ;Pilrb1;Fdact;Pilrb
Protein Construction:	A DNA sequence encoding the mouse PILRB1 (Q2YFS2) extracellular domain (Met 1-Gly 193) was fused with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Gly 29
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q2YFS2
Molecular Weight:	45.8 kDa (predicted); 55-60 kDa (reducing condition, due to glycosylation)

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:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ 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:

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

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.

Reference

Wilson MD,et al.(2006) Comparative analysis of the paired immunoglobulin-like receptor (PILR) locus in six mammalian genomes: duplication, conversion, and the birth of new genes. *Physiol Genomics*. 27 (3): 201-18.

Orr MT,et al.(2010) Natural killer cell education and tolerance. *Cell*. 142(6): 847-56.

Mousseau DD,et al.(2000) PILRalpha, a novel immunoreceptor tyrosine-based inhibitory motif-bearing protein, recruits SHP-1 upon tyrosine phosphorylation and is paired with the truncated counterpart PILRbeta. *J Biol Chem*. 275 (6): 4467-74.

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