

## CD32A Protein, Human, Recombinant (167 Arg, His & Avi), Biotinylated

### General Information

Synonyms:	FcGR;CD32;IGFR2;Fc fragment of IgG receptor IIa;CDw32;FCGR2;CD32A;FCGR2A1;Fc $\gamma$ RIIA; FCG2;Fc gamma RIIA
Protein Construction:	A DNA sequence encoding the extracellular domain (Met1-Met210) of human CD32a (P12318-1, with Natural variant His 167 Arg) was fused with a c-terminal polyhistidine tagged AVI tag at the C-terminus. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Gln 34
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P12318-1
Molecular Weight:	23.7 kDa (predicted); 32 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Loaded Biotinylated Human Fc<math>\gamma</math>RIIA / CD32a recombinant protein (His &amp; Avi Tag) on SA Biosensor, can bind Rituximab (IgG1) with an affinity constant of 0.62 <math>\mu</math>M as determined in a BLI assay.</li><li>2. The purity of Human CD32a / FCGR2A Protein (167 Arg, His &amp; AVI Tag), Biotinylated is more than 95% and the molecular weight of this protein is around 22-34 kDa verified by SEC-MALS.</li></ol>
Purity:	$\geq$ 95 % as determined by SDS-PAGE. $\geq$ 95 % as determined by SEC-HPLC
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:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	<p>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.</p> <p><i>Actual storage temperature shall be subject to the COA.</i></p>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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