

## CD32A Protein, Human, Recombinant (167 Arg, His)

## General Information

Synonyms:	Fc fragment of IgG receptor IIa;IGFR2;FCGR2A1;FCG2;CD32A;CD32;Fc gamma RIIA;Fc $\gamma$ RIIA; CDw32;FCGR2;FcGR
Protein Construction:	A DNA sequence encoding the extracellular domain (Met1-Ile218) of human FCGR2A (P12318-1, with Natural variant His 167 Arg) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Gln 34
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P12318-1
Molecular Weight:	22 kDa (predicted); 30 kDa (reducing condition, due to glycosylation)

## QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1.Loaded Rituximab (IgG1) on ProA Biosensor, can bind Human Fc<math>\gamma</math>RIIA / CD32a recombinant protein with an affinity constant of 2.3 <math>\mu</math>M as determined in a BLI assay.</li><li>2.Loaded Human Fc<math>\gamma</math>RIIA / CD32a recombinant protein on His1K Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 0.65 <math>\mu</math>M as determined in a BLI assay.</li><li>3.Captured Bevacizumab (IgG1) on proA Chip can bind Human Fc<math>\gamma</math>RIIA / CD32a recombinant protein with an affinity constant of 0.79 <math>\mu</math>M as determined in an SPR assay.</li><li>4. The purity of Human CD32a / FCGR2A Protein (167 Arg, His Tag) is more than 95% and the molecular weight of this protein is around 23-32 kDa verified by SEC-MALS.</li></ol>
Purity:	> 95 % as determined by SDS-PAGE. > 90 % 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 7.5. 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 &amp; 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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