# Human IgG2 Fc Protein | BP4092

**Catalog No.:** BP4092 | **Product Name:** In Vivo Grade Recombinant Human IgG2 Fc Protein | **In Vivo Grade / Recombinant Protein**

Conditions of optimal human IgG2 Fc Protein performance should be determined experimentally by the investigator. The recombinant human IgG2 Fc protein was produced in HEK 293 cells (or CHO cells) and purified by protein A.

## Product Specifications

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| **Catalog No.** | BP4092 |
| **Product Name** | In Vivo Grade Recombinant Human IgG2 Fc Protein |
| **Synonyms** | Human Fc protein (IgG2), Human IgG2 Fc region |
| **Summary** | The recombinant human IgG2 Fc protein was produced in HEK 293 cells and purified by protein A. |
| **Source / Host** | HEK 293 cells (also produced in CHO cells) / Human |
| **Formulation** | 0.2 uM filtered solution of 1x PBS. Non-conjugated. |
| **Endotoxin** | Less than 1 EU/mg of protein as determined by LAL method. |
| **Purity** | **>95%** by SDS-PAGE under reducing conditions. |

## Biological Description & Background

BP4092: Recombinant Human IgG2 Fc Protein, In Vivo Grade.

Human Fc (IgG2) is the tail region of an immunoglobulin G2 (IgG2) that interacts with cell surface receptors called Fc receptors and some proteins of the complement system. The ~230 amino acid fragment generally exists as a dimer, although under reducing conditions, it exists as a monomer. It is the basis of prolonged pharmacokinetics of antibodies and is commonly used as a fusion to extend half-life of fusion proteins. IgG2 has a shorter hinge than IgG1, with 12 amino acid residues and four disulfide bridges at the Fab base. The hinge region of IgG2 also lacks a glycine residue, which along with its shortness almost completely prevents rotation and restricts lateral movement of the Fabs.

The recombinant human IgG2 Fc protein was produced in CHO cells (and HEK 293 cells) and purified by protein A.

For human T cell research, Syd Labs OKT3 antibodies are also available.

## Ordering & Technical Support

For custom volume ordering or inquiries, please visit the product webpage or contact our support team:

- **Product Webpage:** https://www.ushelf.com/human-igg2-fc-protein-bp4092/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com