Human IgG1 Fc Protein | BP4091

Catalog No.: BP4091 | **Product Name:** In Vivo Grade Recombinant Human IgG1 Fc Protein | **In Vivo Grade / Recombinant Protein**

In vivo grade recombinant natural and engineered human IgG1 Fc proteins (hIgG1 Fc), and recombinant human IgG1 isotype control antibody and mutants are available. Biotinylated hIgG1 Fc, and hIgG1 Fc with Avi-, His-, and Flag-tags are also available.

Product Specifications

Catalog No.	BP4091
Product Name	In Vivo Grade Recombinant Human IgG1 Fc Protein
Synonyms	Human Fc protein (IgG1), Human IgG1 Fc region, Recombinant hIgG1 Fc Protein
Summary	The In Vivo Grade Recombinant Human IgG1 Fc Protein was produced in mammalian cells and purified by protein A. The hIgG1 Fc protein includes the CH2 (111-223) and CH3 (224-330) domains of the heavy chain constant region as well as the hinge region (99-110) before the CH2 domain. The C103S version of the hIgG1 Fc protein is also available. The C103S substitution prevents improper cysteine bond formation in the absence of a light chain.
Source / Host	Mammalian 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

BP4091: Recombinant Human IgG1 Fc Protein, In Vivo Grade.

The recombinant human IgG1 Fc protein (hIgG1 Fc) includes the CH2 and CH3 domains of the heavy chain constant region. Most of the therapeutic antibody drugs and Fc fusion proteins carry the natural human IgG1 Fc region or engineered mutants. The recombinant human IgG1 Fc protein can be used as the isotype control of the hIgG1 antibodies and the hIgG1 Fc fusion proteins in various in vitro and in vivo experiments.

The in vivo grade recombinant human IgG1 Fc protein (hIgG1 Fc, Glu 99 - Lys 330 of the constant region of the IgG1 heavy chain, Accession # P01857-1) was produced in mammalian cells and purified by protein A. The hIgG1 Fc protein includes the CH2 (111-223) and CH3 (224-330) domains of the heavy chain constant region as well as the hinge region (99-110) before the CH2 domain. The C103S version of the hIgG1 Fc protein is also available. The C103S substitution prevents improper cysteine bond formation in the absence of a light chain.

Molecular weight: Predicted 26.1 kDa. Due to glycosylation, the recombinant human IgG1 Fc protein migrates to 32-34 kDa based on the Bis-Tris PAGE result.

Recombinant natural and engineered human IgG1 Fc proteins, and recombinant human IgG1 isotype control antibody and mutants are available. Biotinylated hIgG1 Fc, and hIgG1 Fc with Avi-, His-, and Flag-tags are also available. Please contact us to ask for a quote for the engineered human IgG1 Fc proteins, biotinylated hIgG1 Fc, and hIgG1 Fc with Avi-, His-, and Flag-tags.

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-igg1-fc-protein-bp4091/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com