



Recombinant Human IgG1-Fc domain

Cat No: Pr00100-10.5

Product Summary

Description: Recombinant human Immunoglobulin gamma-1 heavy chain constant region (IgG1-Fc), manufactured using [AbAb's Recombinant Platform](#)

Protein: Human IgG1-Fc domain

Structure / Form: Disulfide-linked homodimer

Species: Human

Construct: Human IgG1-Fc domain (E216-K447)

Host: HEK293

UniProt Accession Number: P01857

Design Comment: no modifications; numbering of the amino acid sequence in accordance with the Kabat–Chothia numbering scheme (PMID 9367782)

Alternative Description: Fc region of human immunoglobulin G1; IgG1 Fc Protein; IgG1-Fc protein; human Immunoglobulin gamma-1 heavy chain constant region; Human IgG1-Fc control protein

Application(s): Recommended as: a control for Human chimeric IgG1 Fc-Fusion protein activity assay; an immunogen to generate antibodies against the Human IgG1-Fc domain or other Human IgG1-Fc domain applications. IgG-Fc Region is suggested to represent a potential anti-inflammatory drug for treatment of human autoimmune diseases.

Product Form

Purification: Protein A affinity purified

Supplied in: PBS with preservative (0.02% Proclin 300)

Endotoxin: <1.0 EU/mg as determined by the LAL method.

Shipping: The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

Storage Recommendation: Store at 4°C for up to 3 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

SDS PAGE Purity: >98%, as determined by SDS-PAGE and visualised by Coomassie Brilliant Blue

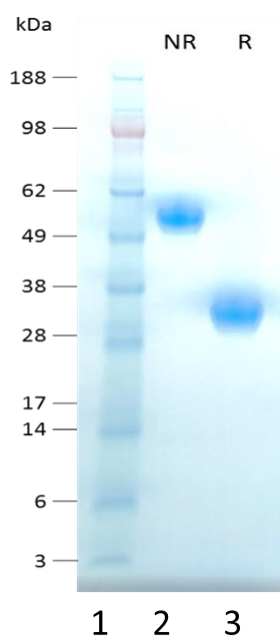
Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals

Fc-Fusion Sequence (monomer)

EPKSQDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR
EEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVK
GFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPG
K

Calculated Molecular Weight (dimer): 52.2 kDa- (apparent Molecular Weight may differ due to glycosylation).

Extinction coefficient: 71570 M⁻¹ cm⁻¹ (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

SDS-PAGE Image:

SDS PAGE Analysis: Lane 1 : Molecular Mass Markers. Lane 2: 2.5µg Recombinant Human IgG1-Fc domain resolved by SDS-PAGE under non-reducing (NR) conditions. Lane 3: 2.5µg Recombinant Human IgG1-Fc domain resolved by SDS-PAGE under reducing conditions

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