

Fc gamma RIIIB/CD16b Protein, Human (Biotinylated)

Cat. No.:	HY-P75204
Synonyms:	Low affinity immunoglobulin gamma Fc region receptor III-B; FcR-10; FCG3; FCGR3
Species:	Human
Source:	E. coli
Accession:	O75015 (M18-G193)
Gene ID:	2215
Molecular Weight:	Approximately 20 kDa

PROPERTIES

AA Sequence	<pre> M R T E D L P K A V V F L E P Q W Y S V L E K D S V T L K C Q G A Y S P E D N S T Q W F H N E S L I S S Q A S S Y F I D A A T V N D S G E Y R C Q T N L S T L S D P V Q L E V H I G W L L L Q A P R W V F K E E D P I H L R C H S W K N T A L H K V T Y L Q N G K D R K Y F H H N S D F H I P K A T L K D S G S Y F C R G L V G S K N V S S E T V N I T I T Q G </pre>
Biological Activity	1. Measured by its ability to bind human IgG1 in a functional ELISA. 2. Labeling ratio of biotin to protein: 5.51.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The Fc gamma RIIIB/CD16b Protein acts as a receptor for the Fc region of immunoglobulins gamma, exhibiting low affinity and binding to both complexed or aggregated IgG as well as monomeric IgG. In contrast to Fc gamma RIIIA, Fc gamma RIIIB lacks the ability to mediate antibody-dependent cytotoxicity and phagocytosis. Instead, it may function as a trap for immune complexes circulating in the periphery, without activating neutrophils. The protein exists as a monomer and
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interacts with INPP5D/SHIP1, suggesting its involvement in intracellular signaling pathways associated with immune responses.

Caution: Product has not been fully validated for medical applications. For research use only.

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