

Fc gamma RIIB/CD32b Protein, Rat (HEK293, His)

Cat. No.:	HY-P76235
Synonyms:	Low Affinity Immunoglobulin Gamma Fc Region Receptor II-b; IgG Fc Receptor II-b; CDw32; FcRII-b; CD32; FCGR2B; FCG2; IGFR2
Species:	Rat
Source:	HEK293
Accession:	Q63203 (H32-P212)
Gene ID:	289211
Molecular Weight:	30-50 kDa.

PROPERTIES

AA Sequence	<pre> H A G L P K A V V K L E P P W I Q V L K E D T V T L M C E G T H N T K N C S T Q W F H N G S S I W H Q A Q A N Y T F K A T V N D S G E Y R C R M E E T G I S E P I H L G V I S D W L L L Q T S Q L V F E E G E T I T L R C H S W K N K Q L T K V L L F Q N G K P V R Y Y H Q S S N F S I P K A N H S H S G N Y Y C K A Y L G R T M H V S K P V T I T V Q E P K S S S S L P </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Rat CD32b, at 2 µg/mL (100 µL/well) can bind Biotinylated Human IgG1 protein. The ED ₅₀ for this effect is 0.3838 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 RIIB/CD32b protein assumes a crucial role as it specifically binds to the Fc region of immunoglobulins gamma, functioning as a low-affinity receptor. Through its binding to IgG, Fc gamma RIIB/CD32b initiates cellular responses against pathogens and soluble antigens, highlighting its involvement in immune system modulation. The protein's interactions with FGR and LYN further emphasize its role in intricate signaling pathways, underlining its significance in
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mediating cellular responses and contributing to immune defense mechanisms against diverse antigens.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA