

Fc gamma RIII/CD16 Protein, Mouse (215a.a, HEK293, His)

Cat. No.:	HY-P76206
Synonyms:	Low affinity immunoglobulin gamma Fc region receptor III; Fcgr3; Fc gamma Receptor III; CD-antigen 16; CD16; FcRIII; IgG Fc receptor III
Species:	Mouse
Source:	HEK293
Accession:	P08508 (M1-T215)
Gene ID:	14131
Molecular Weight:	35-44 kDa.

PROPERTIES

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 RIII/CD16 Protein serves as a low-affinity receptor for the Fc region of complexed immunoglobulins gamma, specifically binding to IgG1, IgG2a, and IgG2b. This receptor plays a crucial role in mediating neutrophil activation in response to IgG complexes, functioning redundantly with Fcgr4 in this process. The interaction with INPP5D/SHIP1 further highlights its involvement in intracellular signaling pathways associated with immune responses, underscoring its significance in facilitating cellular activation triggered by immunoglobulin binding.
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Caution: Product has not been fully validated for medical applications. For research use only.

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