

Active Recombinant Human Chromosome 6 Open Reading Frame 25, Fc-tagged

Cat. No. C6orf25-5603H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human C6orf25 protein was expressed in CHO with the Fc part of human IgG1 Pro100-Lys330(C-terminus) and Asn18-Gln142 (N-terminus).

Species

Human

Source

CHO

Protein Length

18-142 a.a.

Description

C6orf25 is a type I transmembrane glycoprotein in the immunoglobulin superfamily that is encoded within the human class III major histocompatibility complex. It is expressed mainly on platelets, and has also been detected on megakaryocytes and the human cell line K562. Crosslinking of C6orf25 inhibits agonist-stimulated platelet aggregation and activation. The 241 amino acid (aa) human C6orf25 isotype B (G6bB) contains a 17 aa signal sequence, a 125 aa extracellular domain with one V-type Ig-like domain and one N-linked glycosylation site, a 21 aa transmembrane sequence and a 78 aa cytoplasmic sequence with two ITIM inhibitory motifs and a SH3 binding site.

Form

Lyophilized from a 0.2 µm filtered solution in PBS.

N-terminal Sequence

Asn18

Molecular Weight

40.0 kDa

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Activity	Measured by its binding ability in a functional ELISA. When 1 µg/mL of rhC6orf25/Fc is captured by a goat anti-human IgG Fc coated plate, the concentration of biotinylated heparin that produces 50% of the optimal binding response is found to be approximately 10-40 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	45-55kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	C6orf25 chromosome 6 open reading frame 25 [Homo sapiens]
Official Symbol	C6orf25
Synonyms	C6orf25; chromosome 6 open reading frame 25; G6b; NG31; MGC142279, MGC142281; protein G6b; immunoglobulin receptor; OTTHUMP00000029171; OTTHUMP00000029172; OTTHUMP00000029173; OTTHUMP00000029176; OTTHUMP00000029177; OTTHUMP00000215228; OTTHUMP00000215230
Gene ID	80739

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mRNA Refseq	NM_025260
Protein Refseq	NP_079536
MIM	606520
UniProt ID	O95866
Chromosome Location	6p21
Function	heparin binding;receptor activity

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