Active Recombinant Human CD81 Protein, Fc-tagged

Cat. No. CD81-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD81 Protein, fused to Fc-tag, was expressed in CHO Cells.
Species	Human
Source	CHO
Description	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies. Two transcript variants encoding different isoforms have been found for this gene.
Form	Lyophilized from a 0.2 μm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human CD81 LEL Fc Chimera is used at 2 μg/mL, Recombinant Viral HCV E2 binds with an ED50 of 0.2-1.2 g/mL.
Molecular Mass	Predicted Molecular Mass: 36 kDa SDS-PAGE: 36-41 kDa, reducing conditions

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N-terminal Sequence Analysis	Met
Endotoxin	<0.10 EU per 1 μg of the protein by the LAL method.
Purity	>95%
Applications	Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
tmpcolum67	CD81 molecule

GENE INFORMATION

Gene Name	CD81 CD81 molecule [Homo sapiens (human)]
Official Symbol	CD81
Synonyms	S5.7; CVID6; TAPA1; TSPAN28
Gene ID	975

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mRNA Refseq	NM_004356
Protein Refseq	NP_004347
MIM	186845
UniProt ID	P60033
Bioactivity	When Recombinant Human CD81 LEL Fc Chimera is used at 2 μg/mL, Recombinant Viral HCV E2 binds with an ED50 of 0.2-1.2 μg/mL.

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