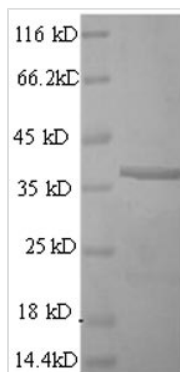




Recombinant Mouse CD63 antigen (Cd63), partial

Product Code	CSB-EP004950MOe0
Relevance	Functions as cell surface receptor for TIMP1 and plays a role in the activation of cellular signaling cascades. Plays a role in the activation of ITGB1 and integrin signaling, leading to the activation of AKT, FAK/PTK2 and MAP kinases. Promotes cell survival, reorganization of the actin cytoskeleton, cell adhesion, spreading and migration, via its role in the activation of AKT and FAK/PTK2. Plays a role in VEGFA signaling via its role in regulating the internalization of KDR/VEGFR2. Plays a role in intracellular vesicular transport processes, and is required for normal trafficking of the PMEL luminal domain that is essential for the development and maturation of melanocytes. Plays a role in the adhesion of leukocytes onto endothelial cells via its role in the regulation of SELP trafficking. May play a role in mast cell degranulation in response to Ms4a2/FcεRI stimulation, but not in mast cell degranulation in response to other stimuli.
Abbreviation	Recombinant Mouse Cd63 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P41731
Alias	CD63
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AGYVFRDQVKSEFNKSFQQMQNYLKDNKTATILDKLQKENNCCGASNYTD WENIPGMAKDRVPDSCCINITVGCGNDFKESTIHTQGCVETIAIWLKNI
Research Area	Others
Source	E.coli
Target Names	Cd63
Expression Region	103-203aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	38.5kDa
Protein Length	Extracellular Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 103-203 form the expressed segment for recombinant Mouse Cd63. The expected molecular weight for the Cd63 protein is calculated to be 38.5 kDa. This Cd63 protein is produced using e.coli expression system. The N-terminal GST tag was fused into the coding gene segment of Cd63, making it easier to detect and purify the Cd63 recombinant protein in the later stages of expression and purification.

The CD63 antigen is a crucial membrane protein involved primarily in intracellular and extracellular substance transport and signal transduction. Its research spans multiple fields, including immunology, oncology, and cell biology. In immunology, CD63 plays a pivotal role in the antigen presentation process, especially when antigens are delivered to the cell surface and participate in immune responses. Scientists focus on unraveling the molecular mechanisms through which CD63 regulates immune reactions, enhancing our understanding of immune system functions. In oncology, CD63 has been found to be closely associated with the invasion and migration of tumor cells. Its expression and regulation in the tumor microenvironment significantly impact the occurrence and development of tumors. Additionally, CD63 participates in intercellular substance exchange, such as the generation and release of exosomes.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.