Recombinant CD44 protein (His tag)

Catalog Number	544430
Synonyms	CDw44; Epican; Extracellular matrix receptor III; ECMR-III; GP90 lymphocyte homing/adhesion receptor; HUTCH-I; Heparan sulfate proteoglycan; Hermes antigen; Hyaluronate receptor; Phagocytic glycoprotein 1; PGP-1; Phagocytic glycoprotein I; PGP-I; CD antigen CD44
Species	Human
Expression System	E. coli
Accession	P16070
Molecular Weight	Predictes a molecular mass of 18.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	21-170
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 21-170 aa (P16070) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human CD44 Fragment (aa 21-170) is a high-purity protein designed for studying the Link domain (aa 32-120), essential for investigating cell adhesion, migration, and extracellular matrix interactions. This fragment serves as a precise tool for researchers exploring T-cell activation, inflammation, and cytoskeletal dynamics. The full-length CD44 antigen is a cell-surface receptor in Homo sapiens that mediates cell-cell interactions, adhesion, and migration by responding to microenvironmental changes. It functions in T-lymphocyte activation, hematopoiesis, and inflammation by binding extracellular components like hyaluronan, collagen, and cytokines, facilitating signal transduction through complexes with kinases and proteases. This activates pathways involving RhoGTPases and actin reorganization, critical for cellular movement. CD44 localizes to the cell membrane, microvilli, and lipid rafts, and can also be secreted, playing roles in immune response and tissue repair.