

CD74 recombinant protein

CD74, 73-232aa, Human, His tag, Baculovirus

CATALOG # AAA48895	HOST Baculovirus	APPLICATIONS SDS-Page
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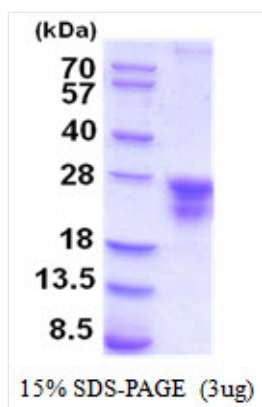
PRODUCT SYNONYMS

CD74; 73-232aa; Human; His tag; Baculovirus; HLA class II histocompatibility antigen gamma chain isoform b; DHLAG; HLADG; Ia-GAMMA II; CD74 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 85% by SDS-PAGE
Form/Format	Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.
Concentration	0.5 mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence	QQQGRLDKLT VTSQNLQLEN LRMKLPKPPK PVSKMRMATP LLMQALPMGA LPQGPMQNAT KYGNMTEDHV MHLLQNADPL KVYPPLKGSF PENLRHLKNT METIDWKVFE SWMHHWLLFE MSRHSLEQKP TDAPPKESLE LEDPSSGLGV TKQDLGPVPM HHHHHH
Sequence Length	232
Applicable Applications for CD74 recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	73-232aa
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation and Storage	For long term storage, aliquot and store at -20 degree C or -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CD74 recombinant protein	CD74, also known as HLA class II histocompatibility antigen gamma chain or HLA-DR antigens-associated invariant chain or CD74 (Cluster of Differentiation 74). The nascent MHC class II protein in the rough ER has its peptide-binding cleft blocked by the invariant chain (Ii; a trimer) to prevent it from binding cellular peptides or peptides from the endogenous pathway. The invariant chain also facilitates MHC class II's export from the ER in a vesicle. The signal for endosomal targeting resides in the cytoplasmic tail of the invariant chain. This fuses with a lateendosome containing the endocytosed, degraded proteins. It is then cleaved by cathepsin S (cathepsin L in cortical thymic epithelial cells), leaving only a small fragment calle CLIP which blocks peptide binding until HLA-DM binds to MHC II, releasing CLIP and allowing other peptides to bind. The stable MHC class-II is then presented on the cell surface. Recombinant human CD74, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for CD74 recombinant protein	Immunology
References	Claesson L. et al. (1983) Proc Natl Acad Sci U S A. 80 (24):7395-9.; Bakke O. et al. (1990) Cell. 63 (4):707-16.; Strubin M. et al. (1984) EMBO J. 3 (4):869-72.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835071
NCBI GeneID	972
NCBI Accession #	NP_004346
NCBI GenBank Nucleotide #	NM_004355.3
UniProt Accession #	P04233; Q14597; Q29832; Q5U0J8; Q8SNA0; Q8WLP6; A8K7R1; B4DNE8; D3DQG3; D3DQG4
Molecular Weight	195 kDa (166aa)
NCBI Official Full Name	HLA class II histocompatibility antigen gamma chain isoform b
NCBI Official Synonym Full Names	CD74 molecule
NCBI Official Symbol	CD74
NCBI Official Synonym Symbols	II; DHLAG; HLADG; Ia-GAMMA
NCBI Protein Information	HLA class II histocompatibility antigen gamma chain
UniProt Protein Name	HLA class II histocompatibility antigen gamma chain
UniProt Gene Name	CD74
UniProt Synonym Gene Names	DHLAG; Ii

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.