

Active Recombinant Human CD74, HA-tagged

Cat. No. CD74-2232H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD74 (Gln56-Leu215), fused with an HA tag at N-terminal, was expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	56-215 a.a.
Description	The protein encoded by this gene associates with class II major histocompatibility complex (MHC) and is an important chaperone that regulates antigen presentation for immune response. It also serves as cell surface receptor for the cytokine macrophage migration inhibitory factor (MIF) which, when bound to the encoded protein, initiates survival pathways and cell proliferation. This protein also interacts with amyloid precursor protein (APP) and suppresses the production of amyloid beta (Abeta). Multiple alternatively spliced transcript variants encoding different isoforms have been identified.
N-terminalSequenceAnalysis	Tyr
PredictedMolecularMass	19.4 kDa
SDS-PAGE	26-40kDa, reducing conditions

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Activity	Measured by the ability of the immobilized protein to support the adhesion of HeLa human cervical epithelial carcinoma cells. When 5×10^4 cells per well are added to Recombinant Mouse CD74 coated plates, cell adhesion is enhanced in a dose dependent manner. The ED ₅₀ for this effect is typically 0.3-1.5 µg/mL.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS PAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
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.
Stability & 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	CD74 CD74 molecule, major histocompatibility complex, class II invariant chain [Homo sapiens]
Official Symbol	CD74
Synonyms	CD74 molecule, major histocompatibility complex, class II invariant chain; DHLAP; HLAG; HLAG; Ia-GAMMA; CD74; HLA class II histocompatibility antigen gamma chain; ii; p33; HLA-DR-gamma; MHC HLA-DR gamma chain; Ia-

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	associated invariant chain; gamma chain of class II antigens; ia antigen-associated invariant chain; HLA-DR antigens-associated invariant chain; CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated); CD74 antigen
Gene ID	972
mRNA Refseq	NM_004355
Protein Refseq	NP_004346
MIM	142790
UniProt ID	P04233
Chromosome Location	5q32
Pathway	Antigen processing and presentation
Function	MHC class II protein binding; beta-amyloid binding; cytokine binding; cytokine receptor activity; identical protein binding
PDB rendering based on 1icf.	