



Recombinant Mouse CD74 (C-6His)

Catalog #	EPT248
Expression Host	Human Cells
DESCRIPTION	Recombinant Mouse HLA Class II Histocompatibility Antigen Gamma Chain is produced by our Mammalian expression system and the target gene encoding Gln56-Leu215 is expressed with a 6His tag at the C-terminus.
Accession	P04441-2
Synonyms	Cluster of Differentiation 74;CD74 antigen; CD74 molecule, major histocompatibility complex, class II invariant chain; DHLAG gamma chain of class II antigens; HLA class II histocompatibility antigen gamma chain; HLADG; HLA-DR antigens-associated invariant
Mol Mass	19.4 KDa
AP Mol Mass	25-30 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.





Endotoxin

Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.

FORMULATION

Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.

RECONSTITUTION

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100 μ g/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

STORAGE

Lyophilized protein should be stored at $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.

Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

BACKGROUND

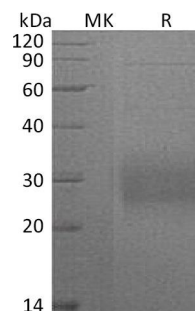
Mouse HLA class II histocompatibility antigen gamma chain (CD74), is a single-pass type II membrane





glycoprotein which contains 1 thyroglobulin type-1 domain. Mouse CD74 shares 75% and 88% aa sequence identity with human and rat CD74, respectively. CD74 plays an important role in adaptive immunity, inflammation, and cancer. It plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to compartments where peptide loading of class II takes place. CD74 also associates with CD44 and binds with high affinity to the cytokine MIF, leading to inflammatory leukocyte responses, protection from tissue fibrosis, B cell proliferative and survival signaling, and the up - regulation of angiogenic factors in endometrial stromal cells.

SDS-PAGE





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