

CD74 Protein, Mouse (224a.a, HEK293, His)

Cat. No.:	HY-P78262
Synonyms:	CD74; Ii; DHLAG; HLADG; Ia-GAMMA; p33; CLIP; INVG34; Ia-GAMMA ; II
Species:	Mouse
Source:	HEK293
Accession:	P04441 (Q56-L279)
Gene ID:	16149
Molecular Weight:	40-55 kDa

PROPERTIES

AA Sequence	<p> QQQGRLDKLT ITSQNLQLES LRMKLPKSAK PVSQMRMATP LLMRPM SMDN MLLGPVKNVT KYGNMTQDHV MHLLTRSGPL EYPQLKGTFF ENLKHLKNSM DGVNWKIFES WMKQWLLFEM SKNSLEEKKP TEAPPKVLTK CQEEVSHIPA VYPGAFRPKC DENGNYLPLQ CHGSTGYCWC VFPNGTEVPH TKSRRGRHNC S EPLDMEDLSS GLGVTRQELG QVTL </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The CD74 protein is integral to the MHC class II antigen processing pathway, exerting a critical role by stabilizing peptide-free class II alpha/beta heterodimers shortly after their synthesis. Furthermore, CD74 guides the transport of this complex from the endoplasmic reticulum to compartments where peptide loading onto class II molecules occurs. Beyond its involvement in antigen presentation, CD74 enhances T-cell responses through interaction with CD44. Additionally, CD74 acts as a chaperone for mature cathepsin L (CTSL), stabilizing its conformation by binding to the active site. This chaperone function aids in maintaining a pool of mature enzyme within endocytic compartments and the extracellular space of</p>
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antigen-presenting cells (APCs), illustrating the multifaceted role of CD74 in modulating immune responses at various stages of antigen processing and presentation.

Caution: Product has not been fully validated for medical applications. For research use only.

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