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**Product Data Sheet**


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Product Name: CD74 Human, Sf9  
 Cat. No.: GP23038  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DHLA2; HLA-DQ; Ia-GAMMA; Ii; HLA-DR antigens-associated invariant chain; p33; Ia antigen-associated invariant chain; HLA class II histocompatibility antigen gamma chain; CD74; Gamma Chain Of Class II Antigens; MHC HLA-DR Gamma Chain.		
Amino Acid Sequence	QQQGRLDKLT VTSQNLQLEN LRMKLPKPPK PVSKMRMATP LLMQALPMGALPQGPMQNAT KYGNMTEHDV MHLNQADPL KVYPPLKGSF PENLRHLKNT METIDWKVFE SWMHHWLLFEMSRHSLEQKP TDAPPKESLE LEDPSSGLGV TKQDLGPVPM HHHHHH.		
Formulation	CD74 protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

**Introduction**

CD74 (HLA class II histocompatibility antigen gamma chain isoform b), is a transmembrane protein (on antigen presenting cells) which is the invariant chain that chaperones MHC class II dimers from the endoplasmic reticulum to the cell surface. CD74 is expressed by cells of both T lymphocyte and B lymphocyte lineages. CD74 upregulated in several cancers and is also expressed by non immune cells during inflammation. Diseases related with CD74 include thymic epithelial neoplasm and gastroduodenitis. Among its related super-pathways are Immune System and Immune response Antigen presentation by MHC class II. In addition CD74 functions as cell surface receptor for the cytokine MIF.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CD74 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 166 amino acids (73-232 a.a.) and having a molecular mass of 19.05 kDa (Molecular size on SDS-PAGE will appear at approximately 18-28 kDa). CD74 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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