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## Product Data Sheet

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Product Name: HLA-DRA Human  
 Cat. No.: GP23649  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Major Histocompatibility Complex; Class II; DR Alpha; HLA-DRA1;MHC Class II AntigenDRA; MLRW; Histocompatibility AntigenHLA-DRAAlpha; HLA Class II Histocompatibility Antigen; DR Alpha Chain; MHC CellSurface Glycoprotein; HLA-DRA1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MIKEEHVIIQ AEFYLNPDQS GEFMDFDFGD EIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDKAN LEIMTKRSNY TPITNVPPEV TVLTNSPVEL REPNVLCFI DKFTPPVVNV TWLRNGKPVTTGVSETVFLP REDHLFRKFH YLPFLPSTED VYDCRVEHWG LDEPLLKHWE FDAPSPLPET TE		
Formulation	HLA-DRA protein solution (0.5mg/ml) containing 20mM Tris-HClbuffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

Major histocompatibility complex, class II, DR alpha (HLA-DRA) belongs to the MHC class II family. HLA-DRA binds peptides derived from antigens which access the endocytic route of antigen presenting cells (APC) and presents them on the cell surface for identification by the CD4 T-cells. The peptide binding cleft accommodates peptides of 10-30 residues. The peptides presented by MHC class II molecules are generated mainly by degradation of proteins which access the endocytic route, where they are processed by lysosomal proteases and other hydrolases.

### 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% HSA or BSA). Please avoid freeze thaw cycles.

**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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### Background

HLA-DRA Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 212 amino acids (26-216 a.a) and having a molecular mass of 24.3kDa. HLA-DRA is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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