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**Product Data Sheet**


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Product Name: HLA-DOA Human  
 Cat. No.: GP23647  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HLA-DNA; HLA-DZA; HLADZ; HLA class II histocompatibility antigen; DO alpha chain; MHC DN-alpha; MHC DZ alpha; MHC class II antigen DOA; HLA-DOA.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSTKADHMG SYGPAFYQSY GASGQFTHEF DEEQLFSDVL KKSEAVWRLP EFGDFARFDP QGGLAGIAAI KAHLDILVER SNRSRAINVP PRVTVLPKSR VELGQPNILI CIVDNIFPPV INITWLRNGQ TVTEGVAQTS FYSQPDHLFR KFHLYLPFVPS AEDVYDCQVE HWGLDAPLLR HWELQVPIPP PDAME.		
Formulation	The HLA-DOA solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

**Introduction**

Major Histocompatibility Complex Class II DO Alpha (HLA-DOA) is a significant modulator in the HLA class II restricted antigen presentation pathway by interaction with the HLA-DM molecule in B-cells. HLA-DOA forms a heterodimer along with HLA-DOB. The heterodimer is located in lysosomes in B cells and regulates HLA-DM-mediated peptide loading on MHC class II molecules. HLA-DOA exhibits very little sequence variation, particularly at the protein level.

**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). Avoid multiple freeze-thaw cycles.

**Background**

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

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HLA-DOA Human Recombinant produced in E. coli is a single polypeptide chain containing 215 amino acids (26-217) and having a molecular mass of 24.1kDa. HLA-DOA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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