
Product Data Sheet

Product Name: HLA-DOB Human

Cat. No.: GP23648

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HLA class II histocompatibility antigen; DO beta chain; MHC class II antigen DOB; HLA-DOB; Major histocompatibility complex; class II; DO beta; DOB.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGS GTDSPED FVIQAKADCY FTNGTEKVQF VVRFIFNLEE YVRFDSVGM FVALTKLGQP DAEQWNSRLD LLERSRQAVD GVCRHNYRLG APFTVGRKVQ PEVTVYPERT PLLHQHNLLH CSVTGFYPGD IKIKWFLNGQ EERAGVMSTG PIRNGDWTFQ TVVMLEMTPE LGHVYTCLVD HSSLLSPVSV EWRAQSEYSW RK.		
Formulation	The HLA-DOB solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Major Histocompatibility Complex Class II DO Beta (HLA-DOB) is a part of the HLA class II beta chain paralogues. This class II beta chain is a heterodimer which is located in intracellular vesicles and consists of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. HLA-DOB which interacts with the HLA-DM molecule in B-cells is a significant modulator in the HLA class II restricted antigen presentation pathway. Class II molecules are expressed in antigen presenting cells such as B lymphocytes, dendritic cells and macrophages.

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-DOB Human Recombinant produced in E. coli is a single polypeptide chain containing 222 amino acids (27-224) and having a molecular mass of 25.2 kDa. HLA-DOB is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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