

## Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

## SZABO-SCANDIC HandelsgmbH

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## HLA-DRA Recombinant Protein (OPCD05254)

Data Sheet

Product Number	OPCD05254
Product Page	www.avivasysbio.com/hla-dra-recombinant-protein-opcd05254.html
Name	HLA-DRA Recombinant Protein (OPCD05254)
Protein Size (# AA)	Lys27~Glu216 amino acids
Molecular Weight	20kDa
Tag	N-terminal His Tag
Conjugation	Unconjugated
NCBI Gene Id	3122
Host	E.coli
Purity	>95%
Concentration	200 ug/mL (prior to lyoph)
Source	E.coli
Gene Full Name	major histocompatibility complex, class II, DR alpha
Alias Symbols	histocompatibility antigen HLA-DR alpha;HLA class II histocompatibility antigen, DR alpha chain;HLA- DRA1;MHC class II antigen DRA.
Product Format	Freeze-dried Powder. PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Description of Target	Binds peptides derived from antigens that access the endocytic route of antigen presenting cells (APC) and presents them on the cell surface for recognition 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 mostly by degradation of proteins that access the endocytic route, where they are processed by lysosomal proteases and other hydrolases. Exogenous antigens that have been endocytosed by the APC are thus readily available for presentation via MHC II molecules, and for this reason this antigen presentation pathway is usually referred to as exogenous. As membrane proteins on their way to degradation in lysosomes as part of their normal turn-over are also contained in the endosomal/lysosomal compartments, exogenous antigens must compete with those derived from endogenous components. Autophagy is also a source of endogenous peptides, autophagosomes constitutively fuse with MHC class II molecules and CD74 and act as APCs, which is an unusual trait of the GI tract. To produce a MHC class II molecule and CD74 and act as APCs, which is an unusual trait of the GI tract. To produce a MHC class II molecule that presents an antigen processing occurs, CD74 undergoes a sequential degradation by various proteases, including CTSS and CTSL, leaving a small fragment termed CLIP (class-II-associated invariant chain peptide). The removal of CLIP is facilitated by HLA-DM via direct binding to the alpha-beta-CLIP complex so that CLIP is released. HLA-DM stabilizes MHC class II molecules until primary high affinity antigenic peptides are bound. The MHC II molecules, and MHC class II molecules is regulated by HLA-DO. Primary dendritic cells (DCs) also to express HLA-DO. Lysosomal microenvironment has been implicated in the regulation of antigen loading into MHC II molecules, increased acidification produces increased proteolysis and efficient peptide loading.
Reconstitution and Storage	2°C to 8°C -80°C
Datasheets/Manuals	Printable datasheet for HLA-DRA Recombinant Protein (OPCD05254)
Additional Information	Endotoxin Level: < 1.0 EU per 1 ug (determined by the LAL method)
Additional Information	Residues: Lys27-Glu216
Uniprot ID	<u>P01903</u>
Protein Name	HLA class II histocompatibility antigen, DR alpha chain
Protein Accession #	<u>NP_061984.2</u>

Nucleotide Accession #	<u>NM_019111.4</u>
Gene Symbol	HLA-DRA
Predicted Species Reactivity	Homo sapiens Human
Application	Ctrl (+), SDS-PAGE, WB
Image 1	

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use. Optimal conditions of its use should be determined by end users.

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