

Recombinant Human CD8A Protein, C-His-tagged, Biotinylated

Product Information

Cat	IMP-1337
Official Symbol	CD8A
Product Overview	<i>Recombinant extracellular domain of human CD8A (NP_001759.3) (Met1-Asp182) was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.</i>
Description	<i>T-cell surface glycoprotein CD8 alpha chain, also known as CD8a, is a single-pass type I membrane protein. The CD8 glycoprotein is expressed by thymocytes, mature T cells and natural killer (NK) cells and has been implicated in the recognition of monomorphic determinants on major histocompatibility complex (MHC) Class I antigens, and in signal transduction during the course of T-cell activation. Both human and rodent CD8 antigens are comprised of two distinct polypeptide chains, alpha and beta. The Ig domains of CD8 alpha are involved in controlling the ability of CD8 to be expressed. Mutation of B-and F-strand cysteine residues in CD8 alpha reduced the ability of the protein to fold properly and, therefore, to be expressed. Defects in CD8A are a cause of familial CD8 deficiency. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.</i>
Expression System	CHO
Species	Human
Tag	C-His
Predicted N Terminal	Ser 22
Form	<i>Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.</i>
Molecular Mass	<i>The recombinant human CD8A consists of 172 amino acids and predicts a molecular mass of 19 kDa. As a result of glycosylation, rh CD8A migrates as an approximately 28 kDa band in SDS-PAGE under reducing conditions.</i>
Protein length	Met1-Asp182
Endotoxin	< 1.0 EU/μg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Storage	<i>Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid</i>

repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.