

General Information

Gene Name Synonym

R3G1

Protein Construction

A DNA sequence encoding the extracellular domain (Met1-Ser301) of human CD1D (P15813) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the human B2M (P61769) (Met1-Met119) constructed the plasmid 2. The two plasmids were co-expressed and the CD1D/B2M heterodimer was purified.

Organism

Human

Expression Host

Human Cells

QC Testing

Purity

(69.4 + 28.4) % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μ g of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Glu 20 & Ile 21

Molecular Mass

The recombinant heterodimer of human CD1D/B2M comprises 393 (293+100) amino acids and has a calculated molecular mass of 45 (33.3+11.7) KDa. The apparent molecular mass of rh CD1D/B2M heterodimer is approximately 43.2 and 12.5 KDa respectively in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

Storage

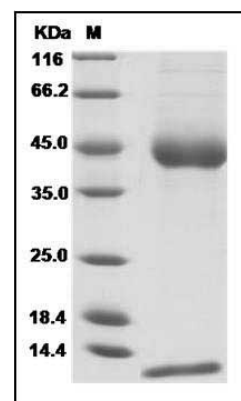
Store it under sterile conditions at -20°C to -80°C.

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human CD1D & B2M Heterodimer Protein SDS-PAGE