abcam

Product datasheet

Recombinant Human CD3 protein (Fc Chimera His Tag) ab220590

1 Image

Overview

Product name	Recombinant Human CD3 protein (Fc Chimera His Tag)
Protein length	Protein fragment

Description

Nature	Recombinant
Source	HEK 293 cells
Amino Acid Sequence	
Accession	P07766
Species	Human
Sequence	DGNEEMGG ITQTPYKVSI SGTTVILTCP QYPGSEILWQ HNDKNIGGDE DDKNIGSDED HLSLKEFSEL EQSGYYVCYP RGSKPEDANF YLYLRARVCE NCMEMD
Molecular weight	39 kDa including tags
Amino acids	23 to 126
Tags	His tag C-Terminus
Additional sequence information	This protein carries a human IgG1 Fc tag at the C-terminus, followed by a polyhistidine tag. (NP_000724.1).

Specifications

Our Abpromise guarantee covers the use of **ab220590** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Endotoxin level	< 1.000 Eu/µg
Purity	>95% by SDS-PAGE .
Form	Lyophilised

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.40
Constituents: 5% Trehalose, 95% PBS

Lyophilized from 0.22 µm filtered solution.
5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 1mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

General Info

Function

The CD3 complex mediates signal transduction.

Involvement in disease

Defects in CD3D are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)/B(+)/NK(+) SCID) [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.

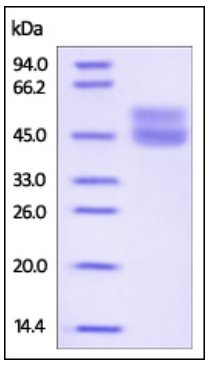
Sequence similarities

Contains 1 ITAM domain.

Cellular localization

Membrane.

Images



SDS-PAGE - Recombinant Human CD3 protein (Fc Chimera His Tag) (ab220590)

SDS-PAGE analysis of reduced ab220590 stained overnight with Coomassie Blue.

The protein migrates as 44-54 kDa under reducing conditions (SDS-PAGE) due to glycosylation.

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