FITC-Labeled Human B7-H3 (4Ig) / B7-H3b Protein, Fc Tag

Catalog # B7B-HF2F4

Synonym

4Ig-B7-H3,B7-H3,CD276,PSEC0249,UNQ309,PRO352,B7 homolog 3

Source

FITC-Labeled Human B7-H3 (4Ig), Fc Tag (B7B-HF2F4) is expressed from human 293 cells (HEK293). It contains AA Gly 27 - Thr 461 (Accession # Q5ZPR3-1). It is the FITC labeled form of Human B7-H3 (4Ig), Fc Tag (Cat. No. B7B-H5258).
Predicted N-terminus: Gly 27

Molecular Characterization

B7-H3 (4Ig)(Gly 27 - Thr 461) Q5ZPR3-1	Fc(Pro 100 - Lys 330) P01857

This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 73.1 kDa. The protein migrates as 95-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Protein Ratio

The FITC to protein molar ratio is ***1-3***.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

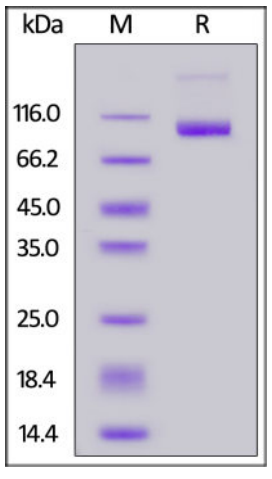
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

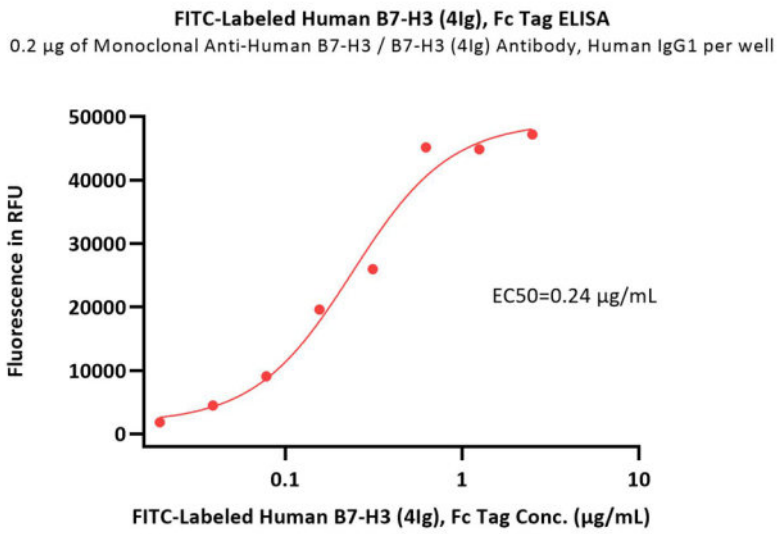
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



FITC-Labeled Human B7-H3 (4Ig), Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Immobilized Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 at 2 μg/mL (100 μL/well) can bind FITC-Labeled Human B7-H3 (4Ig), Fc Tag (Cat. No. B7B-HF2F4) with a linear range of 0.02-0.625 μg/mL (QC tested).

Background

Human B7 homolog 3 (B7-H3) is a member of the B7 family of immune proteins that provide signals for the regulation of immune responses. Other family members include B7-1, B7-2, B7-H1/PD-L1, B7-H2, and PD-L2. B7 family proteins are type I transmembrane immunoglobulin (Ig) superfamily members that contain extracellular Ig V-like and Ig C-like domains with a short cytoplasmic tail. Termed 4IgB7-H3 or B7-H3b, this molecule has two additional Ig-like domains (one V-type and one C-type) and shows a ubiquituous expression pattern.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.