Recombinant Human B7-H3/CD276 Protein (His Tag)

Catalog Number: PKSH031218

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

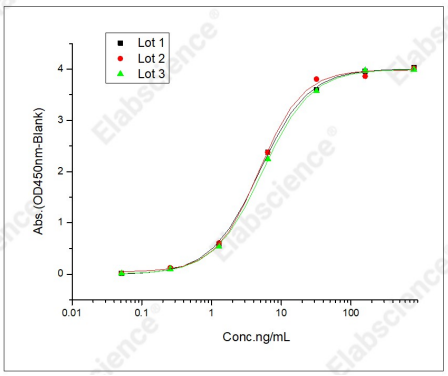
Description

Species	Human
Source	HEK293 Cells-derived Human B7-H3/CD276 protein Met 1-Thr 461, with an C-terminal His
Calculated MW	48 kDa
Observed MW	73 kDa
Accession	Q5ZPR3-1
Bio-activity	Not validated for activity

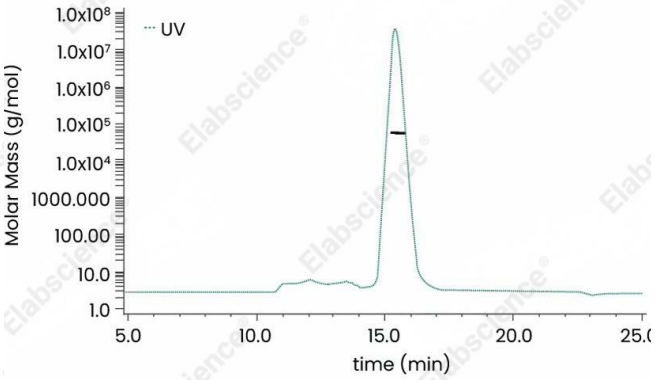
Properties

Purity	> 98% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data

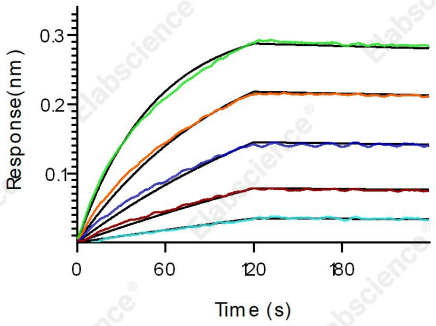


Lot-to-Lot Consistency



The purity of Recombinant Human B7-H3 / CD276 Protein,ECD,His Tag,HPLC-verified(Cat. No. PKSH031218)was more than 90% and the molecular weight of this protein is around 61.0 kDa verified by SEC-MALS.

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Loaded Enoblituzumab on proA Biosensor, can bind Recombinant Human B7-H3 Protein, His Tag (Cat: PKSH031218) with an affinity constant of 1.06 nM as determined in BLI assay (Sartorius Octet RED384) .

Background

B7-H3 is a member of the B7 family of immune regulatory ligands that is thought to attenuate peripheral immune responses through co-inhibition. It plays an important role in adaptive immune responses, and was shown to either promote or inhibit T-cell responses in various experimental systems. B7-H3 may play an important role in muscle-immune interactions, providing further evidence of the active role of muscle cells in local immunoregulatory processes. B7-H3 is a novel protein structurally related to the B7 family of ligands by the presence of a single set of immunoglobulin-V-like and immunoglobulin-C-like (VC) domains. Previous studies have correlated its overexpression with poor prognosis and decreased tumor-infiltrating lymphocytes in various carcinomas including uterine endometrioid carcinomas, and mounting evidence supports an immuno-inhibitory role in ovarian cancer prognosis. Recently, B7-H3 expression has been reported in several human cancers indicating an additional function of B7-H3 as a regulator of antitumor immunity.

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