Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825
Toll-free: 400 627 9288
Email: service@genomeditech.com

Human CD276(B7H3 4Ig) Protein; hFc Tag

Product Information

Product Name	Human CD276(B7H3 4Ig) Protein; hFc Tag
Storage temp	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	**GM-88591RP-100 / 100 μg** **GM-88591RP-1000 / 1 mg**

Protein Information

Alternative Names	4Ig-B7-H3,B7-H3,PSEC0249,UNQ309,PRO352,B7 homolog 3
Source	Human CD276(B7H3 4Ig) Protein; hFc Tag (GM-88591RP) is expressed from human 293 cells (HEK-293). It contains AA Gly 27 - Thr 461 (Accession # Q5ZPR3-1). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Predicted Mol Mass	72.6 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	CD276 protein, also known as B7-H3, is a co-stimulatory molecule that belongs to the B7 family of the immunoglobulin superfamily. It is encoded by the *CD276* gene and is a protein associated with the human immune system. CD276 protein was initially discovered on activated dendritic cells and monocytes, and later detected in various immune cell subsets, including T cells, natural killer (NK) cells, and antigen-presenting cells, as well as in non-immune tissues such as bone, liver, and tumor tissues. CD276 protein regulates T cell activation, proliferation, and cytokine production by binding to its as-yet-uncharacterized receptors on the surface of immune cells. T cells and NK cells are important types of lymphocytes with critical functions in adaptive immune responses, antitumor immunity, and immune surveillance, making them central members of the immune system. Research indicates that CD276 protein plays a significant role in inhibiting T cell-mediated immune responses, promoting immune evasion, and modulating tumor immunity. Additionally, the expression of CD276 protein is associated with various solid tumors, including lung cancer, breast cancer, prostate cancer, and colorectal cancer, as well as with autoimmune diseases and transplant rejection, making it a potential target for immunotherapy and cancer treatment.

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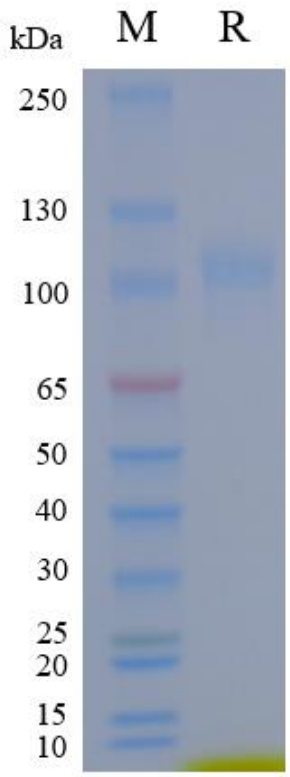
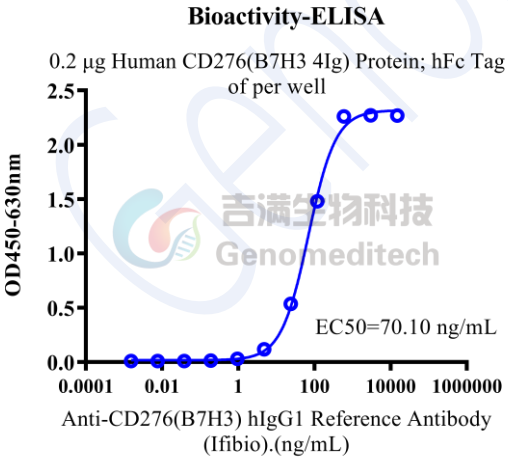
SDS-PAGE

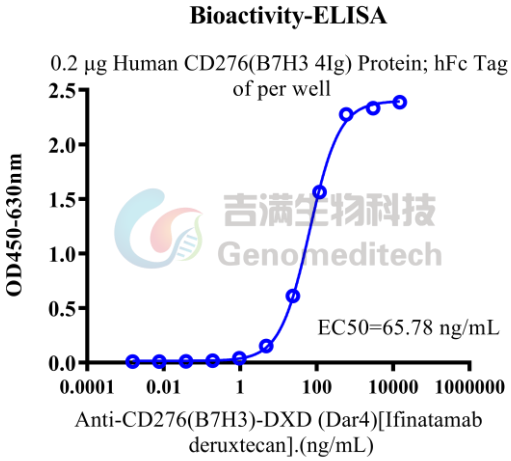


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human CD276(B7H3 4Ig) Protein; hFc Tag (Catalog # GM-88591RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-CD276(B7H3) hIgG1 Reference Antibody (Ifibio) (Catalog # GM-87345MAB) were added.



Human CD276(B7H3 4Ig) Protein; hFc Tag (Catalog # GM-88591RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-CD276(B7H3)-DXD (Dar4) [Ifinatamab deruxtecan] (Catalog # GM-87823AB) were added.