

Human CD28 Protein; hFc Tag

Product Information

Product Name	Human CD28 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

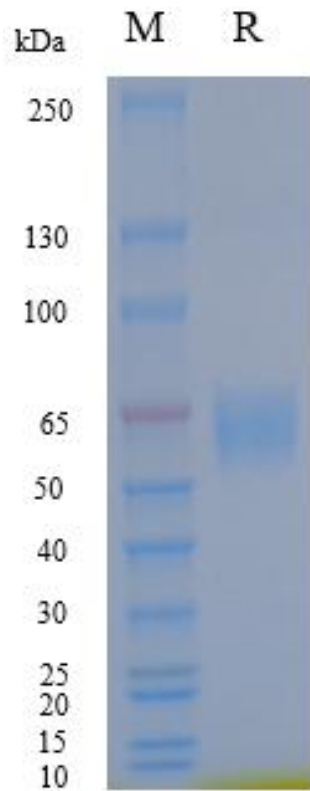
Catalog# / Size	GM-88747RP-100 / 100 μg GM-88747RP-1000 / 1 mg
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Protein Information

Alternative Names	Tp44
Source	Human CD28 Protein; hFc Tag (GM-88747RP) is expressed from human 293 cells (HEK-293). It contains AA Asn 19 - Pro 152 (Accession # P10747-1). 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	41.1 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	CD28 protein, full name Cluster of Differentiation 28, is an important cell membrane receptor protein and a member of the immunoglobulin superfamily. CD28 protein plays a crucial role in regulating T-cell activation, proliferation, and survival in the adaptive immune system by providing essential co-stimulatory signals that work in conjunction with T-cell receptor (TCR) engagement. Dysregulated expression or signaling of CD28 protein is closely associated with the pathogenesis of various immune-related disorders, including autoimmune diseases, chronic infections, and malignancies. Currently, CD28-targeted therapeutic strategies are being actively explored in clinical and preclinical settings. While CD28 itself is not yet a direct drug target in standard clinical practice, its natural ligands (CD80/CD86) are modulated by drugs such as Abatacept and Belatacept for autoimmune diseases and transplantation. In summary, CD28 protein plays a pivotal role in immune regulation and disease pathogenesis. It is of great significance for understanding the mechanisms of T-cell immunity, developing immunomodulatory therapeutic strategies, and evaluating patient prognosis in both autoimmune and oncological settings.

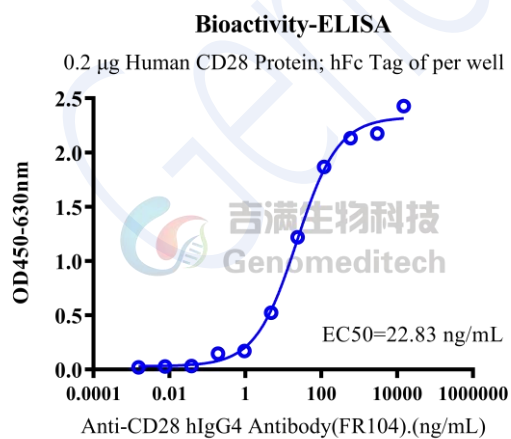
Version:4.0

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 CD28 Protein; hFc Tag (Catalog # GM-88747RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-CD28 hIgG4 Antibody (FR104) (Catalog # GM-52277AB) were added.