Recombinant Human DPP4/DPPIV/CD26 Protein (Fc Tag)

Catalog Number:PKSH030456



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

Synonyms	Dipeptidyl peptidase 4; ADABP; Adenosine deaminase complexing protein		
	2;ADCP-2;Dipeptidyl peptidase IV;DPP IV;T-cell activation antigen CD26		
Species	Human		
Expression Host	HEK293 Cells		
Sequence	Asn 29-Pro 766		
Accession	NP_001926.2		
Calculated Molecular Weight	112 kDa		
Observed molecular weight	120-130 kDa N-hFc		
Гад			
Bioactivity	1. Measured by its ability to bind recombinant Cynomolgus CXCL12 in a function ELISA.		
	2. Measured by its ability to bind recombinant Human SDF1b in a functional ELISA.		
	3. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV bound to Spike (HCoV-EMC/2012) was 11 nM.		
	4. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV bound to Spike (HCoV-EMC/2012) was 32 nM.		
	 Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV bound to Spike (HCoV-EMC/2012) (ECD, aa 1-1297) was 43 nM. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV bound to Spike-His (aa 1-760) was 12 nM. 		
Properties			
Purity	> 95 % 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 -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquo 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% Tween80 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			

кDа	IVIK	ĸ	
116		-	
66.2	-		
45.0			
35.0			
25.0	-		
18.4			
14.4	-		

> 95 % as determined by reducing SDS-PAGE.

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Background

Dipeptidyl peptidase-4 (DPP4) or adenosine deaminase complexing protein 2 (ADCP 2) or T-cell activation antigen CD26 is a serine exopeptidase belonging to the S9B protein family that cleaves X-proline dipeptides from the N-terminus of polypeptides, such as chemokines, neuropeptides, and peptide hormones. The enzyme is a type II transmembrane glycoprotein, expressed on the surface of many cell types. It is also present in serum and other body fluids in a truncated form (sCD26/DPPIV). The soluble CD26 (sCD26) as a tumour marker for the detection of colorectal cancer (CRC) and advanced adenomas. As both a regulatory enzyme and a signalling factor, DPP4 has been evaluated and described in many studies. DPP4 inhibition results in increased blood concentration of the incretin hormones glucagon-like peptide-1 (GLP-1) and gastric inhibitory polypeptide (GIP). This causes an increase in glucose-dependent stimulation, resulting in a lowering of blood glucose levels. Recent studies have shown that DPP4 inhibitors can induce a significant reduction in glycosylated haemoglobin (HbA(1c)) levels, either as monotherapy or as a combination with other antidiabetic agents. Research has also demonstrated that DPP4 inhibitors portray a very low risk of hypoglycaemia development, and are a new pharmacological class of drugs for treating Type 2 diabetes.

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