

Human DPP10 / DPRP3 Protein (His Tag)

Catalog Number: 11760-H07H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

DPL2; DPPY; DPRP-3; DPRP3; 6430601K09Rik; DPPX; Dprp3

Protein Construction:

A DNA sequence encoding the human DPP10 isoform 1 (Q8N608-1) extracellular domain (Leu 56-Glu 796) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human DPP10 consists of 760 amino acids and has a calculated molecular mass of 87.4 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhDPP10 is approximately 90-110 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

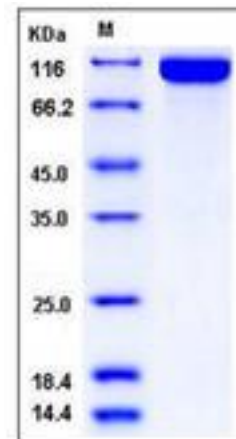
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Inactive dipeptidyl peptidase 10, also known as Dipeptidyl peptidase IV-related protein 3, Dipeptidyl peptidase X, Dipeptidyl peptidase-like protein 2, DPRP-3, DPL2 and DPP10, is a single-pass type I I membrane protein which belongs to the peptidase S9B family, DPPIV subfamily. It may modulate cell surface expression and activity of the potassium channels KCND1 and KCND2. DPP10 / DPRP3 has no detectable protease activity, most likely due to the absence of the conserved serine residue normally present in the catalytic domain of serine proteases. However, it does bind specific voltage-gated potassium channels and alters their expression and biophysical properties. Genetic variations in DPP10 are associated with susceptibility to asthma (ASTHMA). The most common chronic disease affecting children and young adults. It is a complex genetic disorder with a heterogeneous phenotype, largely attributed to the interactions among many genes and between these genes and the environment. It is characterized by recurrent attacks of paroxysmal dyspnea, with wheezing due to spasmodic contraction of the bronchi.

References

1. Nagase T., et al., 2000, DNA Res. 7:143-150.
2. Allen M., et al., 2003, Nat. Genet. 35:258-263.
3. Qi SY, et al., 2003, Biochem J 373 (Pt 1): 179-89.

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