

Human PTK7/CCK4 Protein, Ultra Low Endotoxin

Cat. No. CCK-HM204-UL

Description

Source	Recombinant Human PTK7/CCK4 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus. It contains Ala31-Thr704.
Accession	Q13308-1
Molecular Weight	The protein has a predicted MW of 100.56 kDa. Due to glycosylation, the protein migrates to 110-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Protein Tyrosine Kinase 7 (PTK7) is a critical regulator of canonical and non-canonical Wnt-signaling during embryonic development and cancer cell formation. Disrupting PTK7 activity perturbs vertebrate nervous system development, and also promotes human cancer formation. Observations in different model systems suggest a complex cross-talk between PTK7 protein and Wnt signaling.

Assay Data

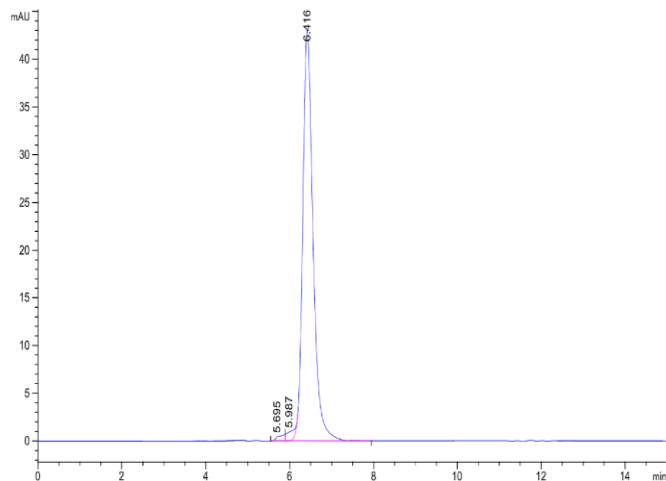
Bis-Tris PAGE



Human PTK7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

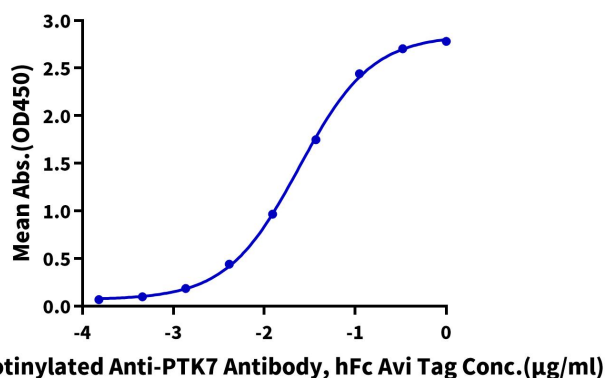
Assay Data



The purity of Human PTK7 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human PTK7, hFc Tag ELISA
0.1µg Human PTK7, hFc Tag Per Well



Immobilized Human PTK7, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-PTK7 Antibody, hFc Avi Tag with the EC50 of 24.2ng/ml determined by ELISA.