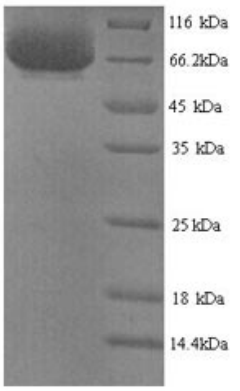
Recombinant Human Inactive tyrosine-protein kinase 7 (PTK7), partial

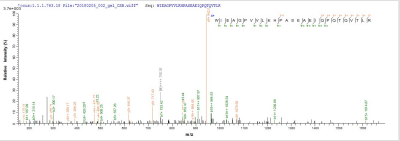
Product Code	CSB-YP622651HU
Relevance	Inactive tyrosine kinase involved in Wnt signaling pathway. Component of both the non-canonical (also known as the Wnt/planar cell polarity signaling) and the canonical Wnt signaling pathway. Functions in cell adhesion, cell migration, cell polarity, proliferation, actin cytoskeleton reorganization and apoptosis. Has a role in bryogenesis, epithelial tissue organization and angiogenesis.
Abbreviation	PTK7
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q13308
Alias	Colon carcinoma kinase 4 ;CCK-4Protein-tyrosine kinase 7Pseudo tyrosine kinase receptor 7Tyrosine-protein kinase-like 7
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Sequence	AIVFIKQPSSQDALQGRRALLRCEVEAPGPVHVYWLLDGAPVQDTERRFAQG SSLSFAAVDRLQDSGTFQCVARDDVTGEEARSANASFNIKWIEAGPVVLKHPA SEAEIQPQTQVTLRCHIDGHPRPTYQWFRDGTPLSDGQSNHTVSSKERNLTL RPAGPEHSGLYSCCAHSAFGQACSSQNFTLSIADESFARVVLAPQDVVVARY EEAMFHCQFSAQPPPSLQWLFEDETPITNRSRPPHLRRATVFANGSLLLTQVR PRNAGIYRCIGQGQRGPPIILEATLHLAEIEDMPLFEPRVFTAGSEERVTCLPPK GLPEPSVWWEHAGVRLPTHGRVYQKGHELVLANIAESDAGVYTCHAANLAG QRRQDVNITVATVPSWLKKPQDSQLEEGKPGYLDCLTQATPKPTVVWYRNQ MLISEDSRFEVFKNGTLRINSVEVYDGTWYRCMSSTPAGSIEAQARVQVLEKL KFTPPPQPQQCMEFDKEATVPCSATGREKPTIKWERADGSSLPEWVTDNAGT LHFARVTRDDAGNYTCIASNGPQGQIRAHVQLTVAVFITFKVEPERTTVYQGH TALLQCEAQGDPKPLIQWKGKDRILDPTKLGPRMHIFQNGSLVIHDVAPEDSG RYTCIAGNSCNIKHTEAPLYVVDKPVPEESEGPGSPPPYKMIQT
Lead Time	3-7 business days
Research Area	Cell Adhesion
Source	Yeast
Gene Names	PTK7
Protein Names	Recommended name: Inactive tyrosine-protein kinase 7Alternative name(s):

	Colon carcinoma kinase 4 Short name= CCK-4 Protein-tyrosine kinase 7 Pseudo tyrosine kinase receptor 7 Tyrosine-protein kinase-like 7
Expression Region	31-704aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	76.6kDa
Protein Description	Extracellular Domain

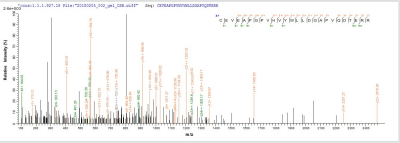
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP622651HU could indicate that this peptide derived from Yeast-expressed Homo sapiens (Human) PTK7.



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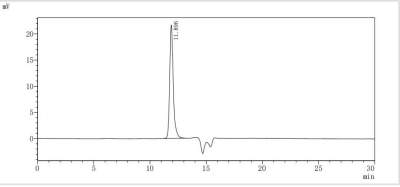

The purity of PTK7 was greater than 95% as determined by SEC-HPLC

Description

The synthesis of this Recombinant Human PTK7 protein depends on the utilization of recombinant DNA technology to a large degree. DNA sequences that encoded the PTK7 protein could be inserted into a vector and introduced into an expression host, Yeast, where it could be easily expressed in and purified from. The expression of this PTK7 protein was at 31-704aa. N-terminal 6xHis tag was fused with this protein. The purity is 90%+ determined by SDS-PAGE.

PTK7 (also known as CCK4) is gene encoding a protein named inactive tyrosine-protein kinase 7(PTK7) in human. The protein encoded by this gene is also known as colon carcinoma kinase 4 (CCK4), protein-tyrosine kinase 7, pseudo tyrosine kinase receptor 7 and tyrosine-protein kinase-like 7. The protein encoded by this gene is a positive regulator of canonical Wnt signaling pathway with its coreceptor activity. Moreover, this protein is also involved other biological processes, such as actin cytoskeleton reorganization, cell adhesion, cell migration and signal transduction.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.