

Product datasheet for **TP310758**

CSK (NM_004383) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human c-src tyrosine kinase (CSK), transcript variant 1, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC210758 protein sequence
Red=Cloning site **Green**=Tags(s)

MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKDPNWKAKNKGREGIIPANYVQKREG
VKAGTKLSLMPWFHKGITREQAERLLYPETGLFLVRESTNYPGDYTLVCSDGKVEHYRIMYHASKLSI
DEEVYFENLMQLVEHYTSDADGLCTRLIKPKVMEGTVAQAQDEFYRSGWALNMKELKLLQTIGKGEFGDV
M
LGDYRGNKVAVKCIKNDATAQAFLAEASVMTQLRHSNLVQLLGIVIVEEKGGLYIVTEYMAKGSGLVDYLR
RGRSVLGGDCLLKFSLDVCEAMEYLEGNNFVHRDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPV
KWTAPALREKKFSTKSDVWSFGILLWEIYSFGRVPYPRIPLKDVVPRVEKGYKMDAPDGCPPAVYEV
NCWHLDAAMRPSFLQLREQLEHIKTHELHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 50.5 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

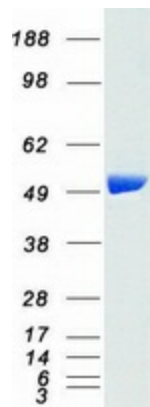
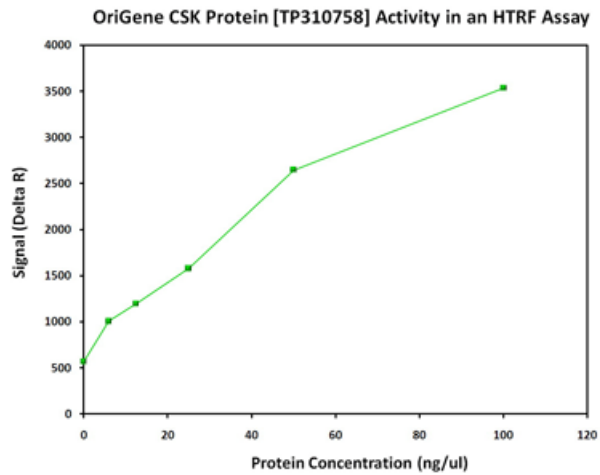
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Bioactivity:	CSK activity verified in a biochemical assay: CSK (c-src tyrosine kinase) (TP310758) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. CSK is a tyrosine kinase known to phosphorylate LCK, FYN and LYN. Varying concentrations of CSK were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the tyrosine residue in the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluors.
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004374
Locus ID:	1445
UniProt ID:	P41240
RefSeq Size:	2755
Cytogenetics:	15q24.1
RefSeq ORF:	1350
Summary:	The protein encoded by this gene is involved in multiple pathways, including the regulation of Src family kinases. It plays an important role in T-cell activation through its association with the protein encoded by the protein tyrosine phosphatase, non-receptor type 22 (PTPN22) gene. This protein also phosphorylates C-terminal tyrosine residues on multiple substrates, including the protein encoded by the SRC proto-oncogene, non-receptor tyrosine kinase gene. Phosphorylation suppresses the kinase activity of the Src family tyrosine kinases. An intronic polymorphism (rs34933034) in this gene has been found to affect B-cell activation and is associated with systemic lupus erythematosus (SLE). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2017]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, Neurotrophin signaling pathway, Regulation of actin cytoskeleton

Product images:



Coomassie blue staining of purified CSK protein (Cat# TP310758). The protein was produced from HEK293T cells transfected with CSK cDNA clone (Cat# [RC210758]) using MegaTran 2.0 (Cat# [TT210002]).