
Product Data Sheet

Product Name: CDK5 Human, Sf9
 Cat. No.: GP22447
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CDK5; Cyclin Dependent Kinase 5; Serine/Threonine-Protein Kinase PSSALRE; Tau Protein Kinase II Catalytic Subunit; Cell Division Protein Kinase 5; TPKII Catalytic Subunit; Cyclin-Dependent-Like Kinase 5; Protein Kinase CDK5 Splicing; EC 2.7.11.22; EC 2.7.11.1; EC 2.7.11; PSSALRE; CDKN5; LIS7.		
Amino Acid Sequence	MQKYEKLEKI GEGTYGTVFK AKNRETHEIV ALKRVRLDDD DEGVPSSALR EICLLKELKH KNIVRLHDVL HSDKKLTLVF EFCDQDLKKY FDSCNGDLDP EIVKSFLFQL LKGLGFCHSR NVLHRDLKPQ NLLINRNGEL KLADFG LARA FGIPVRCYSA EVVTLWYRPP DVLFGAKLYS TSIDMWSAGC IFAELANAGR PLFPGNDVDD QLKRFRLLG TPTEEQWPSM TKLPDYKPYP MYPATTSLVN VVPKLNATGR DLLQNLLKCN PVQRISAEAA LQHPYFSDFC PPHHHHHH		
Formulation	CDK5 protein solution (0.25mg/ml) Phosphate Buffered Saline (pH 7.4) containing 40% glycerol and 1mM DTT.		

Introduction

Cell division protein kinase 5 (CDK5) belongs to the cyclin-dependent kinase family. CDK5 is essential for appropriate development of the brain and in order to be activated CDK5 must link to CDK5R1 or CDK5R2. CDK5 doesn't need phosphorylation on the T loop so that binding with the activator is enough to activate the kinase. CDK5 is engaged in the processes of neuronal maturation and migration, phosphorylating the central intracellular adaptor of the reeling signaling chain.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CDK5 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 298 amino acids (1-292a.a.) and having a molecular mass of 34.1kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). CDK5 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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