

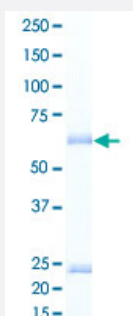
Bioactive

CSNK1E (Human) Recombinant Protein

Catalog # P5525

Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human CSNK1E (NP_001885.1, 1 a.a. - 348 a.a.) partial recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	68
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	54 % by SDS-PAGE/CBB staining

Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip 3000. Substrate: CKtide. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — CSNK1E

Entrez GeneID	1454
Protein Accession#	NP_001885.1
Gene Name	CSNK1E
Gene Alias	HCKIE, MGC10398
Gene Description	casein kinase 1, epsilon
Omim ID	600863
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein is found in the cytoplasm as a monomer and can phosphorylate a variety of proteins, including itself. This protein has been shown to phosphorylate period, a circadian rhythm protein. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]
Other Designations	CKI-epsilon OTTHUMP00000063258 OTTHUMP00000063263 casein kinase 1 epsilon casein kinase I epsilon

Pathway

- [Circadian rhythm - mammal](#)
- [Hedgehog signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Amphetamine-Related Disorders](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Chronobiology Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heroin Dependence](#)
- [Mood Disorders](#)
- [NARP](#)
- [Neoplasm Invasiveness](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)

- [Psychiatric Status Rating Scales](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Sleep Disorders](#)