Recombinant Human CK1 gamma 2 (N-GST tag)

Cat No:HR2R1278

For research use only

Overview

Quantity	10 ?g
Gene Symbol	CK1?2
Gene ID	N/A
Accession	NM_001319
Alternative Name	CSNK1G2, CK1G2
Species	Human
Source	Insect cells
Description	CK1?2 is a member of the CK1 family of serine/threonine protein kinases which play an important role in diverse cell processes, including DNA replication and repair. CK1?2 is a ubiquitously expressed cytoplasmic kinase that can interact and phosphorylate the metastatic tumor antigen 1 short form (MTA1s) co-localizing it in the cytoplasm . Phosphorylated MTA1s then sequesters the estrogen receptor-alpha in the cytoplasm of breast cancer cells. CK1?2 hyperphosphorylates the ceramide transfer protein CERT leading to a decrease in de novo sphingomyelin synthesis. The reduction in synthesis of sphingomyelin is reversed by the expression of CERT mutants that are not hyperphosphorylated .
Functions	The specific activity of CK1?2 was determined to be 30 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	73
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.