

CK1 alpha 1 Recombinant Protein | CK1alpha1 recombinant protein

CK1 alpha 1, Active

CATALOG # AAA73374	HOST Sf9 insect cells	APPLICATIONS Western Blot
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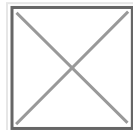
PRODUCT SYNONYMS

CK1 alpha 1; Active; CSNK1A1; CK1; HLCDGP1; PRO2975; CK1A1; CK1alpha1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for CK1alpha1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CK1alpha1 recombinant protein	<p>Full length recombinant human CK1a1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001892.</p> <p>CK1alpha1 is a member of the CK1 family of serine/threonine protein kinases which play an important role in diverse cell processes. CK1alpha1 can regulate Smo cell surface accumulation and activity in response to hedgehog. CK1alpha1 phosphorylate Smo at several sites and phosphorylation-deficient forms of Smo fail to accumulate on the cell surface and are unable to transduce the hedgehog signal (1). CK1alpha1 dynamically associates with the CBM complex on T cell receptor engagement to participate in cytokine production and lymphocyte proliferation. CK1alpha1 can form complex with MDM2 which then regulates the stability of p53 and E2F-1 transcription factors (2).</p>
Product Categories/Family for CK1alpha1 recombinant protein	Protein Kinases; Cancer; Inflammation; Neurobiology; NfκB Pathway; Ser/Thr Kinases; WNT Signaling

References

1. Jia, J. et al: Hedgehog signalling activity of Smoothened requires phosphorylation by protein kinase A and casein kinase I. Nature 432: 1045-1050, 2004.
2. Huart, A S. et al: CK1alpha plays a central role in mediating MDM2 control of p53 and E2F-1 protein stability. J Biol Chem. 2009 Nov 20;284(47):32384-94.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_001892](#)

Molecular Weight

~62kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ck1-alpha-1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73374>