

Bioactive

Full-Length

STK3 (Human) Recombinant Protein

Catalog # P6526

Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human STK3 (NP_006272.2, 1 a.a. - 491 a.a.) full length recombinant protein with GST-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.98
Activity	The activity was measured by off-chip mobility shift assay (MSA). The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by MSA device. Substrate: IRS1, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Result of activity analysis
	Result of activity analysis

Applications

- Functional Study

Gene Info — STK3

Entrez GeneID [6788](#)

Protein Accession# [NP_006272.2](#)

Gene Name STK3

Gene Alias FLJ90748, KRS1, MST2

Gene Description serine/threonine kinase 3 (STE20 homolog, yeast)

Omim ID [605030](#)

Gene Ontology [Hyperlink](#)

Gene Summary Protein kinase activation is a frequent response of cells to treatment with growth factors, chemical s, heat shock, or apoptosis-inducing agents. This protein kinase activation presumably allows cell s to resist unfavorable environmental conditions. The yeast 'sterile 20' (Ste20) kinase acts upstrea m of the mitogen-activated protein kinase (MAPK) cascade that is activated under a variety of str ess conditions. MST2 was identified as a kinase that is activated by the proapoptotic agents stra urosporine and FAS ligand (MIM 134638) (Taylor et al., 1996 [PubMed 8816758]; Lee et al., 200 1 [PubMed 11278283]).[supplied by OMIM

Other Designations serine/threonine kinase 3 (Ste20, yeast homolog)

Pathway

- [MAPK signaling pathway](#)