

Human STK23 / MSK1 / SRPK3 Protein (His & GST Tag)

Catalog Number: 12132-H20B



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

MGC102944; MSK-1; MSK1; STK23; Msk1; Stk23

Protein Construction:

A DNA sequence encoding full length of human SRPK3 isoform 2 (NP_001164231.1) (Met 1-Pro 566) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

No Kinase Activity

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human SRPK3/GST chimera consists of 803 amino acids and has a calculated molecular mass of 89.7 kDa. It migrates as an approximately 100 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

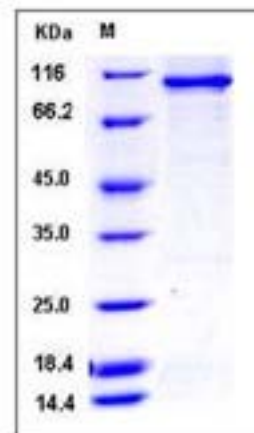
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Serine / threonine-protein kinase SRPK3, also known as Muscle-specific serine kinase 1, Serine/arginine-rich protein-specific kinase 3, SR-protein-specific kinase 3, Serine / threonine-protein kinase 23, MSK-1, SRPK3 and MSK1, is a member of the protein kinase superfamily and CMGC Ser / Thr protein kinase family. SRPK3 is a protein kinase belonging to serine/arginine protein kinases (SRPK) family, which phosphorylates serine / arginine repeat-containing proteins, and is controlled by a muscle-specific enhancer directly regulated by MEF2. SRPK3 / MSK1 contains one protein kinase domain. SRPK3 / MSK1 is exclusively expressed in skeletal and heart muscle. It is required for normal muscle development. Myocyte enhancer factor 2 (MEF2) plays essential roles in transcriptional control of muscle development. Normal muscle growth and homeostasis require MEF2-dependent signaling by SRPK3.

References

1. Greenman C., et al., 2007, Nature 446:153-8.
2. Xu, Y. et al., 2011, Mol Biol Rep. 38(5):2903-9.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>