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Recombinant Human ERK3/MAPK12 Protein (His & GST Tag)

PKSH030318 Catalog No.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms ERK-6;ERK3;ERK6;MAPK12;P38GAMMA;PRKM12;SAPK-3;SAPK3;P38-gam

ma

Species Human

Expression Host Baculovirus-Insect Cells

Sequence Met 1-Leu 367

P53778 Accession Calculated Molecular Weight 69.8 kDa Observed molecular weight 65 kDa N-His-GST Tag

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

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

Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

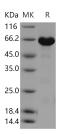
Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as sterile solution of 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

ERK3; also known as MAPK12 and p38-gamma; belongs to the protein kinase superfamily; CMGC Ser/Thr protein kinase family and MAP kinase subfamily. ERK3 is highly expressed in skeletal muscle and heart.ERK3 is a serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK12 is one of the four p38 MAPKs which play an important role in the cascades of cellular responses evoked by extracellular stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors such as ELK1 and ATF2.

For Research Use Only

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Accordingly; p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have approximately 200 to 300 substrates each. MAPK12 is required for the normal kinetochore localization of PLK1; prevents chromosomal instability and supports mitotic cell viability. MAPK12-signaling is also positively regulating the expansion of transient amplifying myogenic precursor cells during muscle growth and regeneration.

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