

Mitogen activated protein kinase from rat, Recombinant

Cat. No. NATE-0443

Lot. No. (See product label)

Introduction

Description Mitogen-activated protein kinases (MAPK) are protein kinases that are specific to the amino acids serine,

threonine, and tyrosine. MAPKs belong to the CMGC (CDK/MAPK/GSK3/CLK) kinase group. MAPKs are involved in directing cellular responses to a diverse array of stimuli, such as mitogens, osmotic stress, heat shock and proinflammatory cytokines. They regulate cell functions including proliferation, gene

expression, differentiation, mitosis, cell survival, and apoptosis.

Synonyms ERK2; Extracellular-signal regulated kinase; MAP Kinase Activated from rat; MAPK; Mitogen activated

protein kinase

Product Information

Species Rat

Source E. coli

Form buffered aqueous glycerol solution

Molecular

mol wt 42 kDa

Weight

Purity > 95% (SDS-PAGE)

Activity > 500 U/mg

Buffer Solution in 20 mM Tris, pH 7.5, 150 mM NaCl, 1 mM EGTA, 10% glycerol, 1 mM DTT, and 0.03% Brij.

Pathway ARMS-mediated activation, organism-specific biosystem; Activated TLR4 signalling, organism-specific

biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem;

Aldosterone-regulated sodium reabsorption, organism-specific biosystem

Function ATP binding; ATP binding; MAP kinase activity; MAP kinase activity; MAP kinase activity; MAP kinase

activity; RNA polymerase II carboxy-terminal domain kinase activity; RNA polymerase II carboxy-terminal domain kinase activity; kinase activity; kinase activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; phosphatase binding; phosphotyrosine binding; phosphotyrosine binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine

kinase activity; transcription factor binding

Unit One unit of activated MAP kinase will transfer 1 nmole of phosphate from ATP to myelin basic protein per

Definition min at 30°C.

Usage and Packaging

Package vial of 100 ng

Storage and Shipping Information

Stability −70°C

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com 1/1