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Datasheet for 009-001-GR1

ERK1 double mutant hu recomb protein

Overview

Description:	ERK1 double mutant human recombinant protein - 009-001-GR1
Item No.:	009-001-GR1
Size:	10 µg
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	ERK1 isoform double mutant recombinant protein is modified to put alanine residues at two key activation sites, Threonine 202 and Tyrosine 204. Mitogen activated protein kinase 3, also known as MAPK3, ERK, or ERK1, is an integral component of the MAP kinase cascade that regulates cell growth and differentiation. This pathway also plays a key role in synaptic plasticity in the brain. The inactive double mutant ERK1 recombinant protein is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research.
Synonyms:	MAPK3, ERK, ERK1, PRKM3, ERK-1 recombinant protein
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	MAPK3
Purity/Specificity:	ERK1 double mutant human is a recombinant protein containing a polyhistidine tag expressed in Sf9. Analysis by SDS-PAGE resulted in a pattern consistent with purified ERK1 and was estimated to be greater than 90% pure.
Relevant Links:	• UniProtKB - P27361

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Human ERK1 mutant recombinant protein has been tested in SDS-Page and is suitable as a negative control protein for immunoassays using antibodies targeting the critical ERK1 phosphorylated T202 or Y204 residues. For western blot use at 50 ng or less. For other assays concentration is user optimized.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	50ng

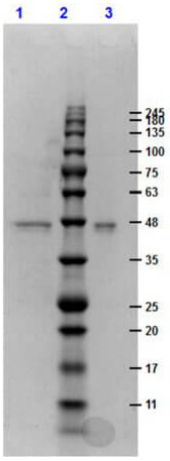
Formulation

Physical State:	Liquid (sterile filtered)
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE

SDS-PAGE results of ERK1 double mutant recombinant Protein. Lane 1: reduced ERK1 DM protein. Lane 2: Opal Prestained Molecular Weight Ladder (p/n MB-210-0500). Lane 3: non-reduced ERK1 DM protein. Load: 1µg. 4-20% Lonza SDS-PAGE; Coomassie Stained; BioRad ChemiDoc Imaged.

Disclaimer

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