

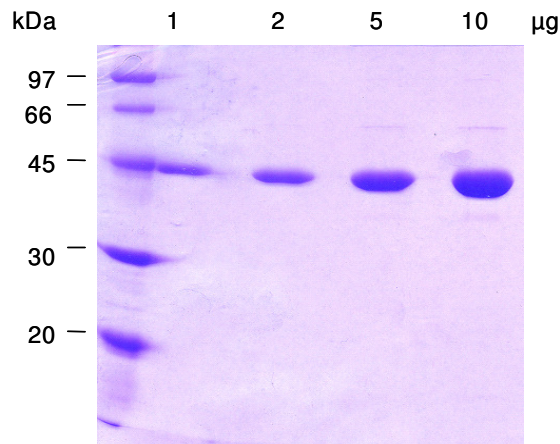
## Certificate of Analysis

<b>Product</b>	<b>ERK1 (MAPK3), unactive human recombinant, expressed in E. coli, N-His-fusion protein</b>	
Cat No	PK-014-01	
Lot No	251004	
<b>Description</b>	Purified human recombinant ERK1, expressed in E.coli. Unactive form. Not phosphorylated at Thr202. Can be activated by and serves as substrate for MEK1. Purified by Ni-NTA chromatography. Sequence based calculated M.W. 44,508 Approved HUGO gene symbol: MAPK3 Synonyms: mitogen activated protein kinase 3, extracellular signal regulated kinase 1, ERK1, p44 <sup>MAPK</sup> , p44 <sup>ERK1</sup>	
<b>Quality</b>	Protein concentration (Bradford with BSA as standard)	2.6 mg/ml
	Purity	> 95% by SDS PAGE
	Specific activity (* 1 Unit is defined as 1 picomole phosphate transferred to myelin basic protein per min at 30 °C)	< 200 Units*/ mg
	Protease activity (Twining test)	none
<b>Form</b>	Liquid. In 50 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 50 % glycerol, pH 8.5.	
<b>Package size</b>	20 microgram	
<b>Storage condition</b>	-70 °C	
<b>Shipment conditions</b>	dry ice	

*Material for in vitro research use only. Not for pharmaceutical or drug application. Material does not contain any animal products such as albumin.*

**AVOID FREEZE/THAW CYCLES**

## SDS-PAGE analysis



## Amino acid sequence information

M13 corresponds to M1 of NM\_002746

MRGSHHHHHH	GSMAAAAQ	GGGGEPRTE	GVGPGVPGEV	EMVKGQPFDV	50
GPRYTQLQYI	GEGAYGMVSS	AYDHVRKTRV	AIKKISPFEH	QTYCQRTLRE	100
IQILLRFRHE	NVIGIRDILR	ASTLEAMRDV	YIVQDLMETD	LYKLLKSQQL	150
SNDHICYFLY	QILRGLKYIH	SANVLHRDLK	PSNLLSNTTC	DLKICDFGLA	200
RIADPEHDHT	GFLTEYVATR	WYRAPEIMLN	SKGYTKSIDE	WSVGCILAEM	250
LSNRPIFPKG	HYLDQLNHIL	GILGSPSQED	LNCIINMKAR	NYLQSLPSKT	300
KVAWAKLFPK	SDSKALDLLD	RMLTFNPNKR	ITVEEALAH	YLEQYYDPTD	350
EPVAEEPFTF	AMELDDLPE	RLKELIFQET	ARFQPGVLEA	P	391

## Reference

Charest DL, Mordret G, Harder KW, Jirik F, Pelech SL 1993 Mol Cell Biol 13: 4679-4690