

MAPK3

Recombinant Human ERK1 Inactive His

Catalog No.	CSI11048	Quantity:	20 µg
Alternate Names:	ERK1, HS44KDAP, HUMKER1A, MGC20180, P44ERK1, P44MAPK, PRKM3, extracellular signal-regulated kinase 1, extracellular signal-related kinase 1, ERK1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; MGC20180; MAPK3		
Description:	<p>N-terminal His-tagged full-length protein. Members of the MAPK families play an important role in complex cellular programs like proliferation, differentiation, development, transformation, and apoptosis. At least three MAPK families have been characterized: extracellular signal regulated kinase (ERK), Jun kinase (JNK/SAPK) and p38 MAPK.</p> <p>MAPK pathways relay, amplify and integrate signals from a diverse range of stimuli and elicit an appropriate physiological response including cellular proliferation, differentiation, development, inflammatory responses and apoptosis in mammalian cells.</p> <p>Activated ERK can enter the nucleus and phosphorylate transcription factors providing the link between cell surface receptor-mediated events and nuclear induction of gene expression. In the nucleus activated ERK promotes the transcription and the activity of transcription factors c-fos, c-myc, c-jun and p21. The recombinant human ERK1 was expressed in <i>E. coli</i> and purified by Ni-agarose chromatography.</p>		
Gene ID:	5595		
Molecular Weight:	44.5 kDa		
Formulation:	Supplied in 50 mM Tris-HCl, pH 8.5 + 150 mM NaCl + 1 mM DTT and 50% glycerol.		
Purity:	> 95% by SDS-PAGE		
Activity:	> 50,000 U/mg (1 Unit is defined as 1 picomole phosphate transferred to myelin basic protein per min at 30°C).		
Applications:	For <i>in vitro</i> use only		
Storage & Stability:	Quality guaranteed for 12 months Store at -80°C Avoid freeze / thaw cycles		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

