
Product Data Sheet

Product Name: MAPK3 Human, His
 Cat. No.: GP22558
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ERK1; HS44KDAP; HUMKER1A; P44ERK1; P44MAPK; PRKM3; MAP kinase3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAAAAAQGGG GGEPRTREGV GPGVPGEVEM VKGQPFDVGP RYTQLQYIGE GAYGMVSSAY DHVRKTRVAI KKISPFEHQ YCQRTLREIQ ILLRFRHENV IGIRDILRAS TLEAMRDVYI VQDLMETDLY KLLKSQQLSN DHICYFLYQI LRGLKYIHS NVLHRDLKPS NLLINTTCDL KICDFGLARI ADPEHDHTGF LTEYVATRWWY RAPEIMLNSK GYTKSIDIWS VGCILAEMLS NRPIFPKHY LDQLNHILGI LGSPSQEDLN CIINMKARNY LQSLPSKTKV AWAKLFPKSD SKALDLLDRM LTFNPNKRIT VEEALAHPYL EQYYDPTDEP VAEEPFTFAM ELDDLPKERL KELIFQETAR FQPGVLEAP.		
Formulation	The MAPK3 0.5mg/ml protein solution contains 20mM Tris-HCl buffer pH-8, 1mM DTT, 0.1M NaCl and 20% glycerol.		

Introduction

MAPK3 is a part of the MAP kinase family which is recognized as extracellular signal-regulated kinases (ERKs), that function in a signaling cascade that controls various cellular procedures such as proliferation, differentiation, and cell cycle progression in reaction to a variety of extracellular signals. MAPK3 is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MAPK3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 399 amino acids (1-379 a.a.) and having a molecular mass of 45.2 kDa. The MAPK3 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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