

ERK2 Protein, Human (sf9, His)

Cat. No.:	HY-P75223
Synonyms:	Mitogen-activated protein kinase 1; MAPK 1; ERT1; ERK-2; p42-MAPK
Species:	Human
Source:	Sf9 insect cells
Accession:	P28482 (M1-S360)
Gene ID:	5594
Molecular Weight:	Approximately 42 kDa

PROPERTIES

AA Sequence	<pre> M A A A A A G A G P E M V R G Q V F D V G P R Y T N L S Y I G E G A Y G M V C S A Y D N V N K V R V A I K K I S P F E H Q T Y C Q R T L R E I K I L L R F R H E N I I G I N D I I R A P T I E Q M K D V Y I V Q D L M E T D L Y K L L K T Q H L S N D H I C Y F L Y Q I L R G L K Y I H S A N V L H R D L K P S N L L L N T T C D L K I C D F G L A R V A D P D H D H T G F L T E Y V A T R W Y R A P E I M L N S K G Y T K S I D I W S V G C I L A E M L S N R P I F P G K H Y L D Q L N H I L G I L G S P S Q E D L N C I I N L K A R N Y L L S L P H K N K V P W N R L F P N A D S K A L D L L D K M L T F N P H K R I E V E Q A L A H P Y L E Q Y Y D P S D E P I A E A P F K F D M E L D D L P K E K L K E L I F E E T A R F Q P G Y R S </pre>
Biological Activity	No Kinase Activity
Appearance	Solution
Formulation	Supplied as 0.22 µm filtered solution in 20 mM Tris, 500 mM NaCl, 10% glycerol (pH 8.0).
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	The MAPK/ERK cascade plays a crucial role in the regulation of various cellular processes, including transcription, translation, mitosis, apoptosis, endosomal dynamics, and Golgi apparatus fragmentation. It achieves this by
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phosphorylating a multitude of substrates, including transcription factors, cytoskeletal elements, regulators of apoptosis, regulators of translation, protein kinases, and phosphatases.

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

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