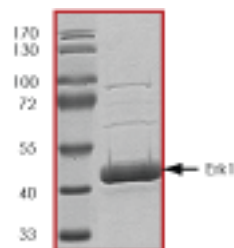
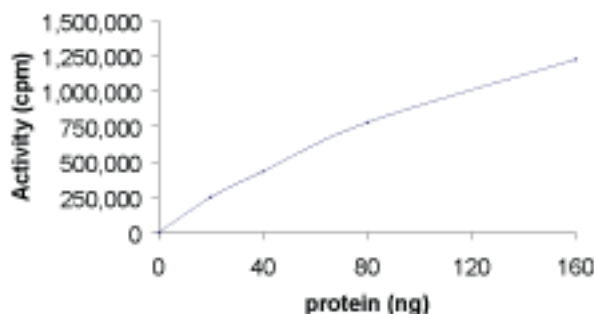


## Recombinant Human ERK1 Active

|                                 |  |                  |               |
|---------------------------------|--|------------------|---------------|
| <b>Catalog No.</b>              | CRE106A<br>CRE106B   | <b>Quantity:</b> | 5 µg<br>10 µg |
| <b>Alternate Names:</b>         | MAPK3, PRKM3, P44ERK1, P44MAPK   |                  |               |
| <b>Description:</b>             | Recombinant full-length, tag free, human ERK1 was expressed in Sf9 cells and activated by active MEK1 <i>in vitro</i> . ERK1 is a protein serine/threonine kinase that is a member of the extracellular signal-regulated kinases (ERKs) which are activated in response to numerous growth factors and cytokines. Activation of ERK1 requires both tyrosine and threonine phosphorylation that is mediated by MEK. ERK1 is ubiquitously distributed in tissues with the highest expression in heart, brain and spinal cord. Activated ERK1 translocates into the nucleus where it phosphorylates various transcription factors (e.g., Elk-1, c-Myc, c-Jun, c-Fos, and C/EBP beta). |                  |               |
| <b>Concentration:</b>           | 0.1 mg/ml  |                  |               |
| <b>Gene Accession No:</b>       | NM_002746  |                  |               |
| <b>Source:</b>                  | Sf9 cells  |                  |               |
| <b>Molecular Weight:</b>        | ~44 kDa  |                  |               |
| <b>Formulation:</b>             | Recombinant protein stored in 50 mM Tris-HCl, pH 7.5 + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mM EDTA + 0.1 mM PMSF + 25% glycerol.   |                  |               |
| <b>Purity:</b>                  | >90% by densitometry   |                  |               |
| <b>Specific Activity:</b>       | 383 nmol/min/mg  |                  |               |
| <b>Storage &amp; Stability:</b> | Shipped on dry ice. Store product frozen at or below -80°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, <b>avoid repeated freeze-thaw cycles</b> .  |                  |               |

The specific activity of ERK1 was determined to be 383nmol/min/mg as per activity assay.

The purity was determined to be >90% by densitometry.



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



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