

## **Recombinant Human MAPKAPK3 GST Active**

Catalog No.	CRM120A CRM120B	Quantity:	5 μg 10 μg
Description:	Recombinant full length human MAPKAPK3 containing N-terminal GST tag was expressed by baculovirus in Sf9 insect cells. MAPKAPK3 has a single potential SH3-binding site in the proline-rich N terminus, a putative ATP-binding site, 2 MAP kinase phosphorylation site motifs, and a putative nuclear localization signal. It shares 72% nucleotide and 75% amino acid identity with MAPKAPK2. MAPKAPK3 was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation. MAPKAPK3 is uniquely poised to support luteal maturation through the phosphorylation and activation of the nuclear transcription factor CREB.		
Concentration:	0.1 mg/ml		
Protein Accession No:	NM_004635		
Source:	Sf9 insect cells		
Formulation:	Recombinant protein in storage buffer (50 mM Tris-HCl + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mM EDTA + 0.1 mM PMSF + 25% glycerol; pH 7.5).		
Purity:	1.5 μg of MAPKAPK3 protein was subjected to SDS-PAGE and Coomassie blue staining. The scan of the blue gel showed >90% purity of the MAPKAPK3 protein product, and the band was at ~69 kDa (Fig. 2).		
Specific Activity:	-	S nmol phosphate incorporated into MBP protein per minute per mg minutes using a final concentration of 50 $\mu$ M ATP (0.83 QC section for details.	
Storage & Stability:	•	re product frozen at or below -80°F. Stable for 1 year at -80°F as undiluted stock. Juot to avoid repeated thawing and freezing.	

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

