

MAPK8

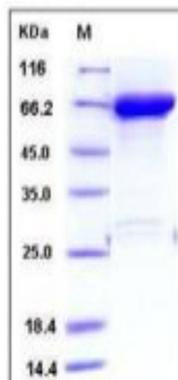
Recombinant Human MAPK8 / JNK1-alpha-2 (GST Tag)

Catalog No.	CRH561A-GST CRH561B-GST	Quantity:	20 µg 50 µg
Alternate Names:	Mitogen-activated protein kinase 8 , MAP kinase 8, MAPK 8, JNK-46, Stress-activated protein kinase 1c, SAPK1c, Stress-activated protein kinase JNK1, c-Jun N-terminal kinase 1		
Description:	Mitogen-activated protein kinase 8 (MAPK8) is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The protein kinase MAPK8 has been found to serve as critical molecular links between obesity, metabolic inflammation, and disorders of glucose homeostasis. It is critically involved in the promotion of diet-induced obesity, metabolic inflammation and beta-cell dysfunction. The selective deficiency of MAPK8 in the murine nervous system is sufficient to suppress diet-induced obesity. Genetic analysis indicates that the effects of MAPK8 can be separated from effects of MAPK8 on obesity. MAPK8 is a potential pharmacological target for the development of drugs that might be useful for the treatment of metabolic syndrome, and type 2 diabetes. Furthermore, MAPK8 plays a major role in the hypoxic cellular damage. MAPK8 protein might be an attractive target for antihypoxic therapy in increasing resistance to many pathological conditions and diseases, leading to the oxygen deficit.		
UniProt ID:	P45983-1		
Accession Number:	NP_620637.1		
Protein Construction:	A DNA sequence encoding the full length of human MAPK8 isoform JNK1-alpha-2 (Met 1-Arg 427) was expressed with the GST tag at the N-terminus.		
Source:	Baculovirus-Insect Cells		
Formulation:	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 25% glycerol Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The recombinant human MAPK8/GST chimera consists of 652 amino acids and predicts a molecular mass of 75 kDa. It migrates at ~65 kDa in SDS-PAGE under reducing conditions.		
Purity:	> 90 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	No kinase activity		
Predicted N-terminal:	Met		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		

Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C .
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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