



MKK1 (MEK) (1 - 393)

Catalog Number (DU Number):

DU911

Accession:

L05624

Expression

bacteria

Terminus and Tag:

N-Term GST Uncleaved

C-Term 6His Uncleaved

Purification Method:

GSH Sepharose followed by Ni²⁺-NTA agarose

Enzymatic Assay Format:

Two step assay in which MKK1 activates unactive MAPK2/ERK2 [DU 650 or DU 1844]. Activity of MAPK2/ERK2 is then assayed against myelin basic protein as substrate (final concentration of 0.3 mg/ml), in the standard filter binding assay.

Assay Buffer:

50 mM Tris-HCl pH 7.5, 0.1 % 2-mercaptoethanol, 0.1 mM EGTA, 10 mM MgAc

Calculated Molecular Mass:

Mono-Isotopic Mass: 70, 909.23 daltons

Average Mass: 70, 954.83 daltons

Purity:

>80 %

Storage Buffer:

50 mM Tris-HCl pH 7.5, 150 mM NaCl, 270 mM sucrose, 0.1 mM EGTA, 0.1 % 2-mercaptoethanol, 0.02 % Brij-35, 1 mM benzamidine, 0.2 mM PMSF

Storage Temperature:

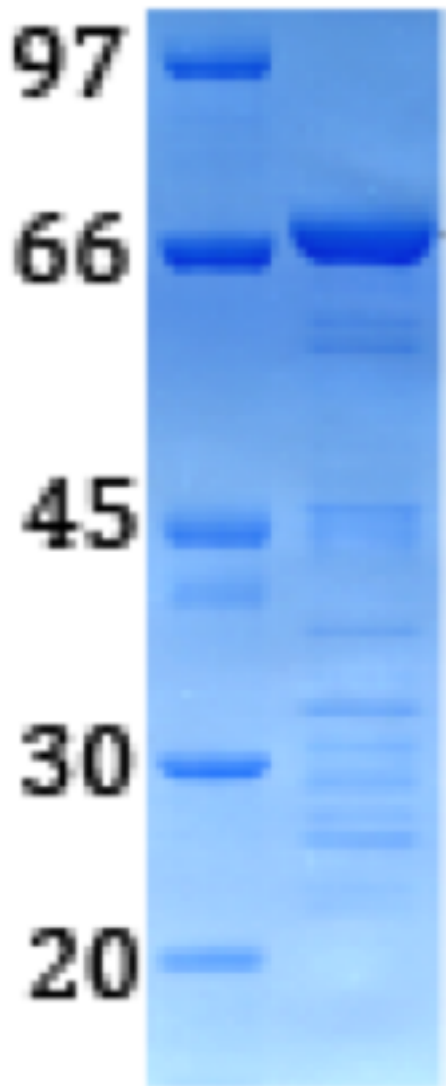
-70 °C

Theoretical PI:

6.19

Gel Information :

Gel Image 1:



Native Sequence:

Amino acids P2 – V393 (end) of human MEK1. Residue P232 of the fusion protein is equivalent to P2 of the native enzyme. The GST tag is located at residues 1 – 220 and the His(6) is located at residues 624-629.

Protease Cleavage:

Precission site (LEVLFQGPL) at residues 221 - 229

Cloning Sites:

BamH1 site of pGEX-6P-1

Price per aliquot (100µg):

£110.00