

Recombinant Full Length Human BMP2K Protein, C-Flag-tagged

Cat. No. BMP2K-1298HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human BMP2K Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is the human homolog of mouse BMP-2-inducible kinase. Bone morphogenic proteins (BMPs) play a key role in skeletal development and patterning. Expression of the mouse gene is increased during BMP-2 induced differentiation and the gene product is a putative serine/threonine protein kinase containing a nuclear localization signal. Therefore, the protein encoded by this human homolog is thought to be a protein kinase with a putative regulatory role in attenuating the program of osteoblast differentiation. Two transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	129 kDa
AA Sequence	MKKFSRMPKSEGGSGGGAAGGGAGGAGAGAGCGSGGSSVGVRVFAVGRHQVTL EESLAEGGFSTVFLVRT HGGIRCALKRMYVNNMPDLNVCKREITIMKELSGHKNI YLDCAVNSISDNVWEVLILMEYCRAQVQN QMNKKLQTGFTEPEVLQIFCDTCEAV ARLHQCKTPIIHRDLKVENILLNDGGNYVLCDFGSATNKFLNPQ KDGNNVVEEIIKK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YTTLSYRAPEMINLYGGKPITTKADIWALGCLLYKLCFFTLPFGESQVAICDGNFTI PD
 NSRYSRNIHCLIRFMLEPDPEHRPDIFQVSYFAFKFAKKDCPVSNINNSSIPSALPEP
 MTASEAAARK SSIKARITDTIGPTETSIAPRQRPKANSATTATPSVLTIQSSATPVKVL
 APGEFGNHRPKGALRPGNGPE ILLGQGPPQQPPQQHRVLQQLQQGDWRLQQQLHL
 QHRHPHQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHHHH HHHHLLQDAYMQQ
 YQHATQQQQLQQFLMHSVYQPQPSASQYPTMMPQYQQAFFQQQMLAQHQPS
 QQQA SPEYLTSPQEFSPALVSYTSSLPAQVGTIMDSSYSANRSVADKEAIANFTNQ
 KNISNPPDMSGWNPFGED NFSKLTEEELLDFEDLLRSNRLEERASSDKNVDLSA
 PHNHPPEDPFGSVPFISHSGSPEKKAHSSIN QENG TANPIKNGKTSPASKDQRTG
 KKTSVQGVQKGNDESESDFESDPPSPKSSEEEEQDDEEVQGEQG DFNDDDTE
 PENLGHRPLLMDSEDEEEEEKHSSDSYEQA KAKYSDMSSVYRDRSGSGPTQDLN
 TILLTSA QLSSDVAVETPKQEFDFGAVPFFAVRAQQPQQEKNEKNLPQHRFPAAG
 LEQEEFDVFTKAPFSKKVNVQ ECHAVGPEAHTIPGYPKSVDVFGSTPFQPF LTSTS
 KSESNEDLFGLVPFDEITGSQQQKVKQRSLQKLSS RQRRTKQDMSKSNKRRHHGT
 PTSTKTKLPTYRTPERARRHKKVGRRDSQSSNEFLTISDSKENISVALT DGKDRGN
 VLQPEESLLDPFGAKPFHSPDLSWHPPHQGLSDIRADHNTVLPGRPRQNSLHGSFH
 SADVLKM
 DDFGAVPFTLVVQSITPHQSQQSQPVELDPFGAAPFSPKQTRTRPLEQKLISEEDL
 AANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by

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conventional chromatography steps.

Protein Families Druggable Genome, Protein Kinase

Full Length Full L.

GENE INFORMATION

Gene Name BMP2K BMP2 inducible kinase [Homo sapiens (human)]

Official Symbol BMP2K

Synonyms BIKE; HRIHFB2017

Gene ID 55589

mRNA Refseq NM_198892.2

Protein Refseq NP_942595.1

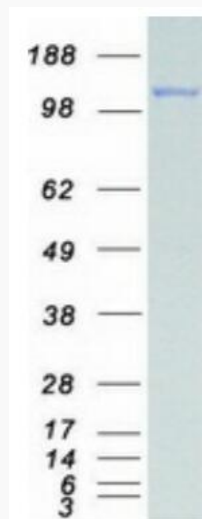
MIM 617648

UniProt ID Q9NSY1

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Coomassie blue staining of purified BMP2K protein.