

Recombinant Human BMP2K Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. BMP2K-377H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BMP2K MS Standard C13 and N15-labeled recombinant protein (NP_942595) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. [provided by RefSeq, Jul 2008]
Molecular Mass	129 kDa
AA Sequence	MKKFSRMPKSEGGSGGGAAGGGAGGAGAGAGCGSGGSSVGVRVFAVGRHQVTLEESLAEGGFSTVFLVRTHGGIRCALKRMYVNNMPDLNVCKREITIMKELSGHKNIVGYLDCAVNSISDNVWEVLILMEYCRAQVVNQMNKKLQTGFTEPEVLQIFCDTCEAVARLHQCKTPIIHRDLKVENILLNDGGNYVLCDFGSATNKFLNPQKDGVNVVEEIKKYTTLSYRAPEMINLYGGKPITTKADIWALGCLLYKLCFFTLPGESQVAICDGNFTIPDNS

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RYSRNIHCLIRFMLEPDPEHRPDIFQVSYFAFKFAKKDCPVSNINNSSIPSALPEPMTA
 SEAAARKSQIKARITDTIGPTETSIAPRQRPKANSATTATPSVLTIQSSATPVKVLAPG
 EFGNHRPKGALRPGNGPEILLGQGPPQQPPQQHRLVQLQQLQGDWRLQQLHLQHR
 HPHQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHHHHHHHHLLQDAYMQQYQH
 ATQQQQMLQQQFLMHSVYQPQPSASQYPTMMPQYQQAFFQQQMLAQHQPSQQQ
 ASPEYLTSPQEFSPALVSYTSSLPAQVGTIMDSSYSANRSVADKEAIANFTNQKNISN
 PPDMSGWNPFGEDNFSKLTEEELLDREFDLLRSNRLEERASSDKNVDSLAPHNHP
 PEDPFGSVPPFISHSGSPEKKAHSSINQENG TANPIKNGKTSPASKDQRTGKKT SVQ
 GQVQKGNDESESDFESDPPSPKSSEEEEQDDEEVLQGEQGD FNDDDTEPENLGH
 RPLLMDSEDEEEEEKHSSDSYEQA KAKYSDMSSVYRDRSGSGPTQDLNTILLTSA
 QLSSDVAVETPKQEFDVFGAVPFFAVRAQQPQQEKNEKNLPQHRFPAAGLEQEEF
 DVFTKAPFSKKVNVQECHAVGPEAHTIPGYPKSVDVFGSTPFQPF LTSTSKSESNE
 LFG LVPFDEITGSQQQKVKQRSLQKLSSRQRRTKQDMSKSN GKRHHGTPTSTKKT
 L KPTYRTPERARRHKKVGRRDSQSSNEFLTISDSKENISVALTDGKDRGNVLQPEESL
 LDPFGAKPFHSPDLSWHPPHQGLSDIRADHNTVLPGRPRQNSLHGSFHSADVLKM
 DDFGAVPFTELVVQSITPHQSQQSQPVELDPFGAAPFPSKQTRTRPLEQKLISEEDL
 AANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	BMP2K BMP2 inducible kinase [Homo sapiens (human)]
Official Symbol	BMP2K
Synonyms	BMP2K; BMP2 inducible kinase; BMP-2-inducible protein kinase; BIKe; DKFZp434K0614; BIKE; HRIHFB2017; DKFZp434P0116;
Gene ID	55589
mRNA Refseq	NM_198892
Protein Refseq	NP_942595
MIM	617648
UniProt ID	Q9NSY1
SDS-PAGE	