

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | BMP2K MS Standard C13 and N15-labeled recombinant protein (NP_942595) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 129 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MKKFSRMPKSEGGSGGGAAGGGAGGAGAGAGCGSGGSSVGVRVFAVGRHQVTLEESLAEGGFSTVFLVRTHGGIRCALKRMYVNNMPDLNVCKREITIMKELSGHKNIVGYLDCAVNSISDNVWEVLILMEYCRAGQVVNQMNKKLQTGFTEPEVLQIFCDTCEAVARLHQCKTPIIHRDLKVENILLNDGGNYVLCDFGSATNKFLNPQKDGVNVEEEIKKYTTLSYRAPEMINLYGGKPITTKADIWALGCLLYKLCFFTLPGESQVAICDGNFTIPDNS                                                                                                                                                                                                                                                                                                                                                              |

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RYSRNIHCLIRFMLEPDPEHRPDIFQVSYFAFKFAKKDCPVSNINNSSIPSALPEPMTA  
 SEAAARKSQIKARITDTIGPTETSIAPRQRPKANSATTATPSVLTIQSSATPVKVLAPG  
 EFGNHRPKGALRPGNGPEILLGQGPPQQPPQQHRLVQLQQLQGDWRLQQLHLQHR  
 HPHQQQQQQQQQQQQQQQQQQQQQQQQQHHHHHHHLLQDAYMQQYQH  
 ATQQQQMLQQQFLMHSVYQPQPSASQYPTMMPQYQQAFFQQQMLAQHQPSQQQ  
 ASPEYLTSPQEFSPALVSYTSSLPAQVGTIMDSSYSANRSVADKEAIANFTNQKNISN  
 PPDMMSGWNPFGEENFSKLTEEEELLDREFDLLRSNRLEERASSDKNVDSLAPHNHP  
 PEDPFGSVPPFISHSGSPEKKAHSSINQENG TANPIKNGKTSPASKDQRTGKKT SVQ  
 GQVQKGNDESESDFESDPPSPKSSEEEEQDDEEVLQGEQGD FND DDTEPENLGH  
 RPLLMDSEDEEEEEKHSSDSYEQAKAKYSMDSSVYRDRSGSGPTQDLNTILLTSA  
 QLSSDVAVETPKQEFDVFGAVPFFAVRAQQPQQEKNEKNLPQHRFPAAGLEQEEF  
 DVFTKAPFSKKVNVQECHAVGPEAHTIPGYPKSVDVFGSTPFQPF LTSTSKSESNE D  
 LFG LVPFDEITGSQQQKVKQRSLQKLSSRQRRTKQDMSKSN GKRHHGTPTSTKKT L  
 KPTYRTPERARRHKKVGRRDSQSSNEFLTISDSKENISVALTDGKDRGNVLQPEESL  
 LDPFGAKPFHSPDL SWHPPHQGLSDIRADHNTVLPGRPRQNSLHGSFHSADVLKM  
 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

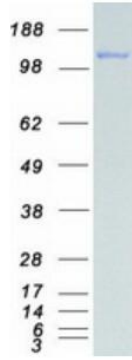
**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

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