

Recombinant Mouse Bmp2k, GST-tagged

Cat. No. Bmp2k-225M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse BMP2K (1-422) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	1-422 a.a.
Description	BMP2K or Bone morphogenic protein 2 inducible kinase is the human homolog of mouse BMP-2-inducible kinase which plays a key role in skeletal development and patterning. BMP2K is a serine/threonine protein kinase which contains a nuclear localization signal and plays a regulatory role in attenuating the program of osteoblast differentiation. BMP2K gene is strongly correlated with high myopia and may contribute to a genetic risk factor for high degrees of myopic pathogenesis. BMP-2 expression is suppressed by an EP4 receptor antagonist and PGE2 produced by COX-2 increases BMP-2 expression via binding the EP4 receptor.
Form	Recombinant protein stored in 50mM is-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~70 kDa
Purity	>95% by densitometry

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Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	Bmp2k BMP2 inducible kinase [Mus musculus]
Official Symbol	Bmp2k
Synonyms	BMP2K; BMP2 inducible kinase; BMP-2-inducible protein kinase; BIKE; AA673486; AV128808; 4933417M22Rik;
Gene ID	140780
mRNA Refseq	NM_080708
Protein Refseq	NP_542439
Pathway	Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	ATP binding; kinase activity; nucleotide binding; phosphatase regulator activity; protein kinase activity; protein serine/threonine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups;

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