

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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