BMP2K recombinant protein

BMP2K, Active

CATALOG #	HOST	APPLICATIONS
AAA73251	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

BMP2K; Active; BIKE; 4933417M22Rik; AA673486; AV128808; BMP2K recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein st ored in 50mM Tris-HCl, pH7.5, 300mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for BMP2K recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST tag
Species	Mouse
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for BMP2K recombinant protein	Recombinant mouse BMP2K (1-422) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_080708. 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 (1). 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 (2).
Product Categories/Family for BMP2K recombinant protein	Protein Kinases; AKT/PKB Pathway; Cancer; ERK/MAPK Pathway; Inflammation; Invasion/Metastasis; JNK/SAPK Pathway; NfkB Pathway; p38 Pathway; PKA/PKC Pathway; WNT Signaling
References	1. Liu HP. et.al: A novel genetic variant of BMP2K contributes to high myopia. J Clin Lab Anal. 2009;23(6):362-7. 2. Arikawa T. et.al: Regulation of bone morphogenetic protein-2 expression by endogenous prostaglandin E2 in human mesenchymal stem cells. J Cell Physiol. 2004 Sep;200(3):400-6.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_080708
Molecular Weight	70kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/bmp2k-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73251