

Bone morphogenetic protein 3 Recombinant Protein | BMP3 recombinant protein

Recombinant Human Bone morphogenetic protein 3

CATALOG # AAA113138	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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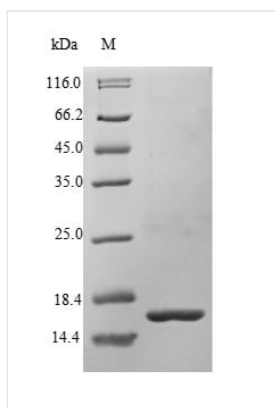
PRODUCT SYNONYMS

Bone morphogenetic protein 3; Recombinant Human Bone morphogenetic protein 3; Bone morphogenetic protein 3A; BMP-3A; Osteogenin; BMP3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	363-472aa; Full Length
Sequence	QWIEPRNCAR RYLKVFADI GWSEWIISPK SFDAYYCSGA CQFPMPKSLK PSNHATIQSI VRAGVVPGI PEPCCVPEKM SLSILFFDE NKNVVLKVYP NMTVESCACR
Sequence Length	472
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for BMP3 recombinant protein	Negatively regulates bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentiation and ossification.
Product Categories/Family for BMP3 recombinant protein	Developmental Biology

References

Novel regulators of bone formation molecular clones and activities.Wozney J.M., Rosen V., Celeste A.J., Mitsock L.M., Whitters M.J., Kriz R.W., Hewick R.M., Wang E.A.Science 242:1528-1534(1988) Generation and annotation of the DNA sequences of human chromosomes 2 and 4.Hillier L.W., Graves T.A., Fulton R.S., Fulton L.A., Pepin K.H., Minx P., Wagner-McPherson C., Layman D., Wylie K., Sekhon M., Becker M.C., Fewell G.A., Delehaunty K.D., Miner T.L., Nash W.E., Kremitzki C., Oddy L., Du H., Sun H., Bradshaw-Cordum H., Ali J., Carter J., Cordes M., Harris A., Isak A., van Brunt A., Nguyen C., Du F., Courtney L., Kalicki J., Ozersky P., Abbott S., Armstrong J., Belter E.A., Caruso L., Cedroni M., Cotton M., Davidson T., Desai A., Elliott G., Erb T., Fronick C., Gaige T., Haakenson W., Haglund K., Holmes A., Harkins R., Kim K., Kruchowski S.S., Strong C.M., Grewal N., Goyea E., Hou S., Levy A., Martinka S., Mead K., McLellan M.D., Meyer R., Randall-Maher J., Tomlinson C., Dauphin-Kohlberg S., Kozlowski-Reilly A., Shah N., Swearengen-Shahid S., Snider J., Strong J.T., Thompson J., Yoakum M., Leonard S., Pearman C., Trani L., Radionenko M., Waligorski J.E., Wang C., Rock S.M., Tin-Wollam A.-M., Maupin R., Latreille P., Wendl M.C., Yang S.-P., Pohl C., Wallis J.W., Spieth J., Bieri T.A., Berkowicz N., Nelson J.O., Osborne J., Ding L., Meyer R., Sabo A., Shotland Y., Sinha P., Wohldmann P.E., Cook L.L., Hickenbotham M.T., Eldred J., Williams D., Jones T.A., She X., Ciccarelli F.D., Izaurralde E., Taylor J., Schmutz J., Myers R.M., Cox D.R., Huang X., McPherson J.D., Mardis E.R., Clifton S.W., Warren W.C., Chinwalla A.T., Eddy S.R., Marra M.A., Ovcharenko I., Furey T.S., Miller W., Eichler E.E., Bork P., Suyama M., Torrents D., Waterston R.H., Wilson R.K.Nature 434:724-731(2005) Bone morphogenetic protein-3 is a negative regulator of bone density.Daluiski A., Engstrand T., Bahamonde M.E., Gamer L.W., Agius E., Stevenson S.L., Cox K., Rosen V., Lyons K.M.Nat. Genet. 27:84-88(2001) BMP signaling components are expressed in human fracture callus.Kloen P., Di Paola M., Borens O., Richmond J., Perino G., Helfet D.L., Goumans M.J.Bone 33:362-371(2003) Characterization of the distinct orthotopic bone-forming activity of 14 BMPs using recombinant adenovirus-mediated gene delivery.Kang Q., Sun M.H., Cheng H., Peng Y., Montag A.G., Deyrup A.T., Jiang W., Luu H.H., Luo J., Szatkowski J.P., Vanichakarn P., Park J.Y., Li Y., Haydon R.C., He T.-C.Gene Ther. 11:1312-1320(2004) Expression of bone morphogenetic proteins, receptors, and tissue inhibitors in human fetal, adult, and osteoarthritic articular cartilage.Chen A.L., Fang C., Liu C., Leslie M.P., Chang E., Di Cesare P.E.J. Orthop. Res. 22:1188-1192(2004) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) BMP-3 and BMP-6 structures illuminate the nature of binding specificity with receptors.Allendorph G.P., Isaacs M.J., Kawakami Y., Izpisua Belmonte J.C., Choe S.Biochemistry 46:12238-12247(2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	126507087
NCBI GeneID	651
NCBI Accession #	NP_001192.2
NCBI GenBank Nucleotide #	NM_001201.2
UniProt Accession #	P12645; Q4VAS5
Molecular Weight	16.4 kDa
NCBI Official Full Name	bone morphogenetic protein 3 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 3
NCBI Official Symbol	BMP3
NCBI Official Synonym Symbols	BMP-3A
NCBI Protein Information	bone morphogenetic protein 3
UniProt Protein Name	Bone morphogenetic protein 3
UniProt Gene Name	BMP3
UniProt Synonym Gene Names	BMP3A; BMP-3; BMP-3A
UniProt Entry Name	BMP3_HUMAN

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.