

Wnt-3a recombinant protein

Human Wnt-3a

CATALOG #
AAA79316

HOST
E Coli

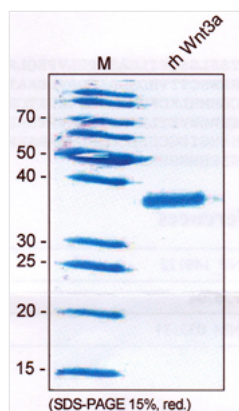
PRODUCT SYNONYMS

Wnt-3a; Human Wnt-3a; Wnt-3a recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% by SDS-PAGE & Coomassie stain
Form/Format	Lyophilized
Sequence	ProteinSeq uence:MSYP IWWSLAVGPQ YSSLGSQPIL CASIPGLVPK QLRFCRNYVE IMPSVAEGIK IGIQECQHQQF RGRRWNCTTV HDLSAIFGPV LDKATRESAF VHAIASAGVA FAVTRSCAEG TAAICGHMHL KCKCHGLSGS CEVKTCWWSQ PDFRAIGDFL KDKYDSASEM VVEKHRESRG WVETLRPRYT YFKVPTERDL VYYEASPNC EPNPETGSFG TRDRTCNVSS HGIDGCDLLC CGRGHNARAE RRREKCRCVF HWCCYVSCQE CTRVDVHTC KLEHHHHHH
Sequence Length	352
Stabilizer	None
Stability	The lyophilized human Wnt3a, though stable at room temperature, is best stored desiccated below 0°C. Reconstituted human Wnt3a should be stored in working aliquots at -20°C.
Reconstitution	Human Wnt3a should be reconstituted in 50 mM acetic acid to a concentration of 0.1 mg/ml. This is solution can be diluted in water or other buffer solutions or stored at -20°C.
Buffer	50mM acetic acid
Length (aa)	343

IMAGES



SDS-PAGE

SDS-Page analysis of recombinant human Wnt3a. Sample was loaded in 15% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for Wnt-3a recombinant protein	Wnt-3a is one of about 19 vertebrate members of the Wingless-type MMTV integration site (Wnt) family of highly conserved, cysteine-rich secreted glycoproteins important for normal developmental processes. Wnts bind to receptors of the Frizzled family in conjunction with a coreceptor of the low-density lipoprotein receptor-related protein family (LRP-5 or -6), or the Ryk atypical receptor tyrosine kinase. During development, Wnt-3a is a morphogen that is thought to coordinate somitogenesis and mesoderm boundary determination. When Wnt-3a is deleted, mice fail to develop a hippocampus, and show defects in anterior-posterior patterning, somite development and tailbud formation. Wnt-3a has also been implicated in chondrocyte differentiation. Like other Wnts, Wnt-3a is modified by palmitate addition (at Cys 77) following glycosylation, which increases its hydrophobicity, secretion and activity. A second site at Ser 209 modified by palmitoleic acid also contributes. Human Wnt-3a shares 96% amino acid (aa) identity with mouse, bovine and canine Wnt-3a, and 89%, 86% and 84% aa identity with chicken, Xenopus and zebrafish Wnt-3a, respectively. It also shares 87% aa identity with Wnt-3. Human Wnt-3a is a 44 kDa secreted hydrophobic glycoprotein containing a conserved pattern of 24 cysteine residues.
Product Categories/Family for Wnt-3a recombinant protein	Recombinant protein; Cytokines & Growth Factors; Wnt-3a

NCBI AND UNIPROT INFORMATION

NCBI GI #	14916475
NCBI GeneID	89780
NCBI Accession #	NP_149122
NCBI GenBank Nucleotide #	NM_033131.3
UniProt Accession #	P56704; Q3SY79; Q3SY80; Q969P2
Molecular Weight	38.6 kDa
NCBI Official Full Name	protein Wnt-3a
NCBI Official Synonym Full Names	wingless-type MMTV integration site family, member 3A
NCBI Official Symbol	WNT3A
NCBI Protein Information	protein Wnt-3a
UniProt Protein Name	Protein Wnt-3a
UniProt Gene Name	WNT3A
UniProt Entry Name	WNT3A_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.