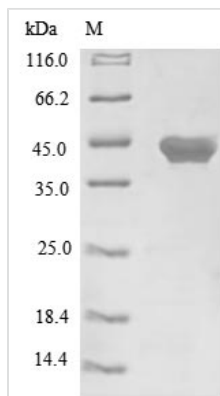




Recombinant Mouse Protein Wnt-3a (Wnt3a)

Product Code	CSB-EP026136MO
Relevance	Ligand for members of the frizzled family of seven transmembrane receptors. Wnt-3 and Wnt-3a play distinct roles in cell-cell signaling during morphogenesis of the developing neural tube.
Abbreviation	Recombinant Mouse Wnt3a protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P27467
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	SYPIWWSLAVGPQYSSLSTQPILCASIPGLVPKQLRFCRNYVEIMPSVAEGVKA GIQECQHQRGRRWNCCTTVSNLSAIFGPVLDKATRESAFVHAIASAGVAFVAVT RSCAEGSAAICGCSSRLQGSPGEGWKWGGCSEIDIEFGGMVSREFADAREN PDARSAMNRHNNEAGRQAIASHMHLKCKCHGLSGSCEVKTCWWSQPDFRTI GDFLKDKYDSASEMVVEKHRESRGWVETLRPRYTYFKVPTERDLVYYEASPN FCEPNPETGSFGTRDRTCNVSSHGIDGCDLLCCGRGHNARTERRREKCHCV FHWCCYVSCQECTRVYDVHTCK
Research Area	Developmental Biology
Source	E.coli
Target Names	Wnt3a
Protein Names	Wnt-3a
Expression Region	19-352aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	40.9 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The N-terminal 10xHis tag was fused to the gene fragment corresponding to the 19-352aa of the mouse Wnt3a protein and then was cloned into an expression vector. The expression vector was transformed into the E.coli for expression. The generated product was purified and separated to obtain the recombinant mouse Wnt3a protein. Its purity is higher than 85%. It showed an apparent molecular weight of about 40-45 kDa under SDS-PAGE condition. This recombinant mouse Wnt3a protein may be used in the research about developmental biology.

Wnt3a is a gene encoding a protein named Wnt3a and belongs Wnt family which consists of structurally related genes encoding secreted signaling proteins. These proteins are highly conserved across species. Wnt3a is ligand for members of the frizzled family of seven transmembrane receptors. It functions in the canonical Wnt signaling pathway that results in activation of transcription factors of the TCF/LEF family. WNT3A-associated diseases include Osteoporosis, Juvenile and Osteoporosis-Pseudoglioma Syndrome.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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