

Product datasheet

Recombinant mouse Wnt3a protein ab81484

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Overview

Product name	Recombinant mouse Wnt3a protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Cell Culture
Amino Acid Sequence	
Accession	P27467
Species	Mouse
Sequence	<p>SYPIWWSLAVGP QYSSLSTQPILCASIPGLVP KQLRFCRNYV EIMPSVAEGV KAGIQECQHQ FRGRRWNCTT VSNSLAIFGP VLDKATRESA FVHAIASAGV AFAVTRSCAE GSAAICGCSS RLQGSPGEGW KWGGCSEDIE FGGMVSREFA DARENRPDAR SAMNRHNNEA GRQAIASHMH LKCKCHGLSG SCEVKTCWWS QPDFRTIGDF LKDKYDSASE MVVEKHRESR GWVETLRPRY TYFKVPTERD LVYYEASPNF CEPNPETGSF GTRDRTCNVS SHGIDGCDLL CCGRGHNART ERRREKCHCV FHWCCYVSCQ ECTRVYDVHT CK</p>
Amino acids	19 to 352
Additional sequence information	ab81484 is a monomeric glycoprotein containing 334 amino acid residues. This protein is the mature full length (aa19-352), it does not contain the signal peptide from aa 1-18.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab81484** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	<p>The ED₅₀ was determined by its ability to induced alkaline phosphatase production by CCL-226 cells.</p> <p>The expected ED₅₀ for this effect is 0.4-0.6 ng/ml.</p>
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Applications	Cell differentiation SDS-PAGE Cellular Activation HPLC
Purity	> 75 % SDS-PAGE. Greater than 75% by HPLC analyses.
Form	Lyophilised
Additional notes	Endotoxin level is less than 0.2 ng per µg (2EU/µg). Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized from 10mM Sodium Phosphate, pH 7.5 + 500mM NaCl + 0.5% CHAPS.

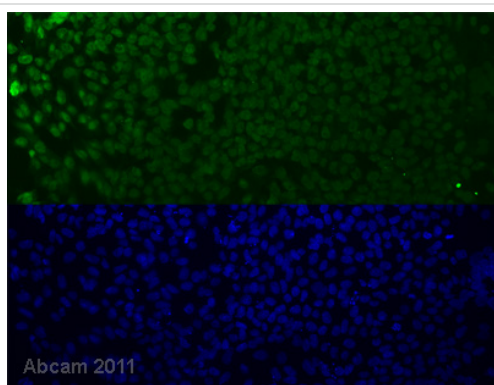
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute to a concentration of 0.1 mg/ml with ddH ₂ O. Once reconstituted product is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C.

General Info

Function	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.
Tissue specificity	Moderately expressed in placenta and at low levels in adult lung, spleen, and prostate.
Sequence similarities	Belongs to the Wnt family.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



Cell differentiation - Recombinant mouse Wnt3a protein (ab81484)

This image is courtesy of Emily Moorefield, Wake Forest Institute for Regenerative Medicine, NC, USA

Human embryonic stem cells (HUES4) were differentiated as monolayer cultures on matrigel coated dishes using a protocol described in Kroon et al, Nat Biotechnol. (2008). Inhibin beta A (ab50051) and Wnt3a (ab81484) were added to cultures to direct differentiation towards definitive endoderm. This image was taken 3 days after induction, where the definitive endoderm marker FOX2 (ab40874 in green) is abundant. Dapi staining is shown in blue. Magnification: 200x. Negative controls of fluorescently conjugated secondary antibodies only showed no staining.

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