

TECHNICAL DATA SHEET

## Recombinant Mouse WNT-3A (Carrier-Free)

Catalog Number: 21-9187

### RPx-Pro™ Recombinant Protein

#### PRODUCT INFORMATION

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Recombinant Mouse WNT-3A (Carrier-Free)

#### DESCRIPTION

Wnt-3a belongs to the Wnt family of signaling proteins that play a key role in maintaining the integrity of embryonic and adult tissues. Expression of Wnt-3a occurs primarily along the dorsal midline across overlapping regions of the Central Nervous System (CNS). Recombinant Mouse Wnt-3a is a monomeric glycoprotein containing 334 amino acid residues.

#### MOLECULAR MASS

Due to glycosylation, the Mouse Wnt-3a migrates at an apparent molecular weight of approximately 38.0-41.0 kDa by SDS-PAGE analysis under non-reducing conditions.

#### AMINO ACID SEQUENCE

SYPIWWSLAV GPQYSSLSTQ PILCASIPGL VPKQLRFCRN YVEIMPSVAE GVKAGIQECQ HQFRGRRWNC TTVSNSLAIF GPVLDKATRE SAFVHAIASA  
 GVAFVTRSC AEGSAAICGC SSRLQGSPGE GWKWGGCSED IEFGGMVSRE FADARENRPD ARSAMNRHNN EAGRQAIASH MHLKCKCHGL  
 SGSCVKTWC WSQPDFRTIG DFLKDKYDSA SEMVVEKHRE SRGWVETLRP RYTYFKVPTD RDLVYYEASP NFCEPNPETG SFGTRDRTCN  
 VSSHGIDGCD LLCCGRGHNA RTERRREKCH CVFHWCCYVS CQECTRVYDV HTCK

#### SOURCE

HEK293 cells

#### APPLICATIONS

Bioassay

#### PURITY

75 %

#### STORAGE

-20°C

#### PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

#### ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

#### AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### CROSS REACTIVITY

Chicken, Human, Mouse

#### BIOACTIVITY

The ED50 was determined by its ability to induced alkaline phosphatase production by CCL-226 cells. The expected ED50 for this effect is 0.4-0.6 ng/ml.

#### RESEARCH AREAS

Neurobiology, Proliferation, Stem Cells & Differentiation, Bone, Skeletal, Cartilage, Cancer

#### RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

#### REFERENCES

Wu, J.Q. Tcf7 is an important regulator of the switch of self-renewal and differentiation in a multipotential hematopoietic cell line. 2012. PLoS Genetics; 8(3): e1002565. Carthy, J.M. Wnt3a Induces Myofibroblast Differentiation by Upregulating TGF-β Signaling Through SMAD2 in a β-Catenin-Dependent Manner. 2011. PLoS ONE; 6(5):e19809.

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