

Recombinant Human Wnt3A

Product Description

- Animal-derived product free
- High Activity
- Lyophilized and Carrier Free (CF)

Wnt3A^{HuXp} is a member of the Wnt gene family that consists of structurally linked genes that encode secreted signaling proteins. These proteins are associated with oncogenesis and in numerous developmental processes. These processes include regulation of cell fate and patterning during embryogenesis. Human Wnt3A is a protein which shows 84% amino acid identity to human Wnt3 protein. Wnt3A plays a key role in maintaining the integrity of embryonic and adult tissues. The post-translational glycosylation and acylation of Wnts are essential for their efficient secretion and biological activity.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 20 ng/mL EC ₅₀
Purity	>90%
Endotoxin	<1 EU/ μ g
Molecular Mass	38-42 kDa
Formulation	1x PBS pH 7.4 + 500mM NaCl + 1% CHAPS

Purity Confirmation

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

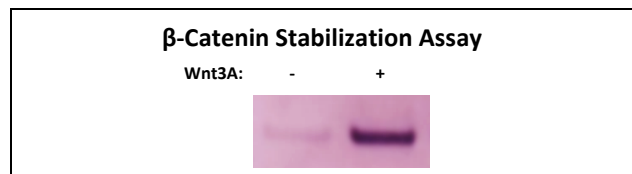
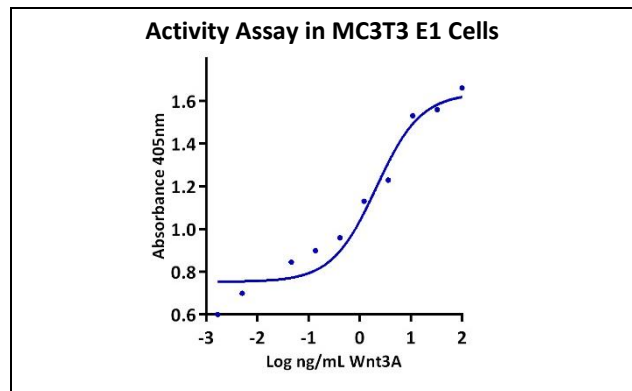
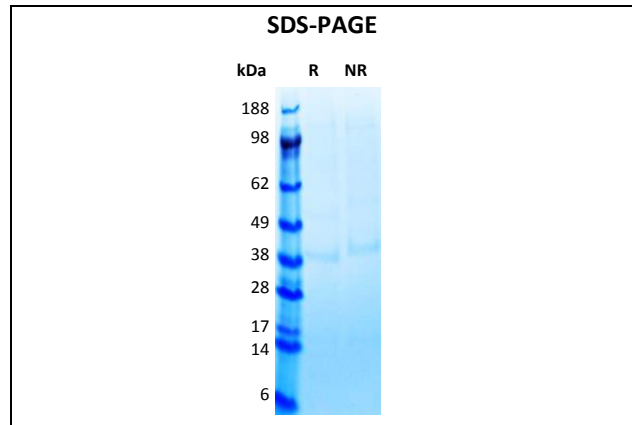
The activity was determined by dose dependent Alkaline Phosphatase production in MC3T3 E1 mouse preosteoblast cells⁽¹⁾ and stabilization of beta catenin in mouse L929 cells⁽²⁾.

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to $\leq 100\mu$ g/mL in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).



All HumaXpress[®] HumanKine[™] are animal-component-free and Xeno-free[™]



References

- 1) Walter, K., and Schutt, C., in Methods of Enzymatic Analysis, Bergmeyer, H.U. ed., 2nd ed., Volume II, Academic Press, Inc. (New York, NY:1974), 860- 864.
- 2) van Noort M, et al., 2002, J Biol Chem, 277(20), 17901-5.

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