

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% identity relative to other human Wnt3 proteins. 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 EC50
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⁾.

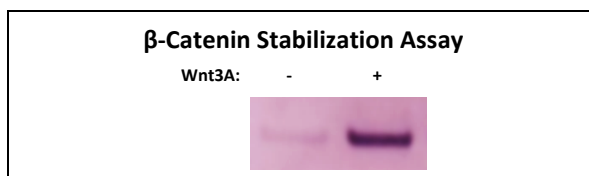
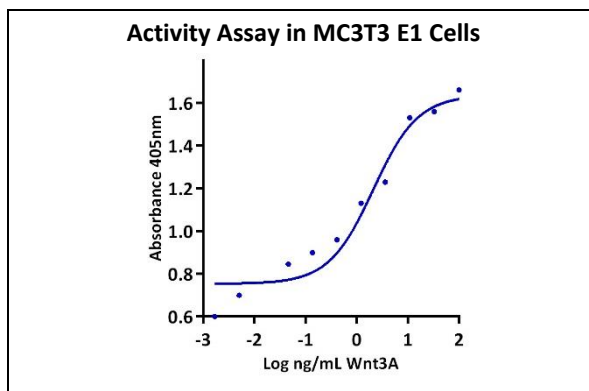
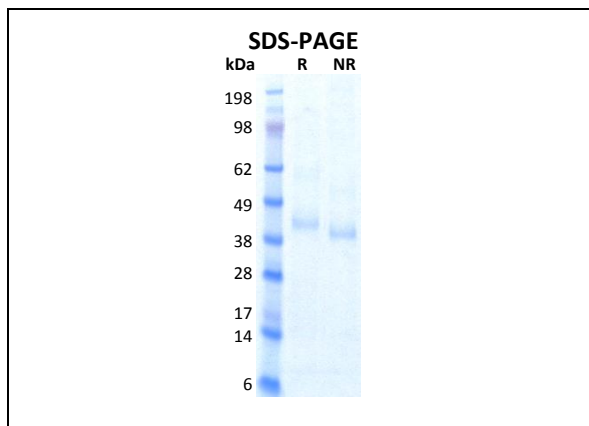
Reconstitution Buffer

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 HSA.

(Complimentary HSA will be provided with shipment)



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.

Limited Use and Restrictions: Unless otherwise stated in our catalog or other company documentation accompanying the products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.