

Wnt4 protein, Human (HEK293, C-hFc)

Cat. No.:	HY-P700313
Synonyms:	WNT4; wingless-typeMMTV integration site family, member 4; WNT-4; SERKAL; protein Wnt-4; UNQ426/PRO864
Species:	Human
Source:	HEK293
Accession:	P56705 (S23-R351)
Gene ID:	54361
Molecular Weight:	65.6 kDa

PROPERTIES

AA Sequence	<p> S N W L Y L A K L S S V G S I S E E E T C E K L K G L I Q R Q V Q M C K R N L E V M D S V R R G A Q L A I E E C Q Y Q F R N R R W N C S T L D S L P V F G K V V T Q G T R E A A F V Y A I S S A G V A F A V T R A C S S G E L E K C G C D R T V H G V S P Q G F Q W S G C S D N I A Y G V A F S Q S F V D V R E R S K G A S S S R A L M N L H N N E A G R K A I L T H M R V E C K C H G V S G S C E V K T C W R A V P P F R Q V G H A L K E K F D G A T E V E P R R V G S S R A L V P R N A Q F K P H T D E D L V Y L E P S P D F C E Q D M R S G V L G T R G R T C N K T S K A I D G C E L L C C G R G F H T A Q V E L A E R C S C K F H W C C F V K C R Q C Q R L V E L H T C R </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The Wnt4 protein operates as a ligand for members of the frizzled family of seven transmembrane receptors, playing a crucial role in the embryonic development of the urogenital tract and the lung. It is required for the normal mesenchyme to epithelium transition during embryonic kidney development and for the formation of early epithelial renal vesicles. Wnt4 is indispensable for the formation of the Mullerian duct in females and the maintenance of normal oocyte levels in the ovaries.</p>
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Additionally, it is necessary for the normal down-regulation of 3 beta-hydroxysteroid dehydrogenase in the ovary. Furthermore, Wnt4 is essential for normal lung development and the proper patterning of tracheal cartilage rings. The protein interacts with PORCN and PKD1, underscoring its intricate involvement in various developmental processes and signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA