

## Wnt3a Protein, Human (HEK293)

<b>Cat. No.:</b>	HY-P70453
<b>Synonyms:</b>	MGC119418; MGC119419; MGC119420; protein Wnt-3a; wingless-type MMTV integration site family, member 3A; Wnt3a; Wnt-3a
<b>Species:</b>	Human
<b>Source:</b>	HEK 293
<b>Accession:</b>	P56704 (S19-K352)
<b>Gene ID:</b>	89780
<b>Molecular Weight:</b>	100-120 kDa

### PROPERTIES

#### AA Sequence

S Y P I W W S L A V	G P Q Y S S L G S Q	P I L C A S I P G L	V P K Q L R F C R N
Y V E I M P S V A E	G I K I G I Q E C Q	H Q F R G R R W N C	T T V H D S L A I F
G P V L D K A T R E	S A F V H A I A S A	G V A F A V T R S C	A E G T A A I C G C
S S R H Q G S P G K	G W K W G G C S E D	I E F G G M V S R E	F A D A R E N R P D
A R S A M N R H N N	E A G R Q A I A S H	M H L K C K C H G L	S G S C E V K T C W
W S Q P D F R A I G	D F L K D K Y D S A	S E M V V E K H R E	S R G W V E T L R P
R Y T Y F K V P T E	R D L V Y Y E A S P	N F C E P N P E T G	S F G T R D R T C N
V S S H G I D G C D	L L C C G R G H N A	R A E R R R E K C R	C V F H W C C Y V S
C Q E C T R V Y D V	H T C K		

**Biological Activity** Data is not available.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Endotoxin Level** <0.01 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

**Storage & Stability** Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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

Wnt-3a belongs to the Wnt family of proteins that consist of structurally related genes encoding highly conserved cysteine-rich secreted glycoproteins. Wnts are ligands for seven-pass transmembrane receptors of the frizzled family. Wnts bind

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Frizzled receptors and forms complex with ILRP5 or LRP6, which results in the stabilization of intracellular beta-catenin levels.

Wnt-3a is a 44 kDa secreted hydrophobic glycoprotein containing a conserved pattern of 24 cysteine residues.

Human Wnt-3a shares 96% amino acid (aa) identity with mouse, and bovineWnt-3a.

Wnt-3a, a novel Wnt protein, specifically promotes Wnt/ $\beta$ -catenin signaling pathway<sup>[1][2]</sup>.

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## REFERENCES

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[1]. Karl Willert, et al. Wnt proteins. Cold Spring Harb Perspect Biol. 2012 Sep 1;4(9):a007864.

[2]. Bryan T MacDonald, et al. Frizzled and LRP5/6 receptors for Wnt/ $\beta$ -catenin signaling. Cold Spring Harb Perspect Biol

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

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