

## Recombinant Human Wnt3a/Wnt-3a

Catalog Number: PKSH033972

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

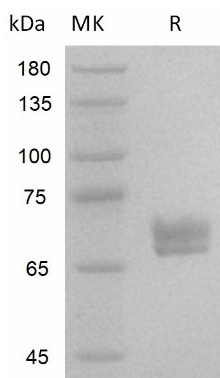
### Description

<b>Species</b>	Human
<b>Calculated MW</b>	58.5 kDa
<b>Observed MW</b>	66-73 kDa
<b>Bio-activity</b>	Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED <sub>50</sub> for this effect is 20-80 ng/ml.

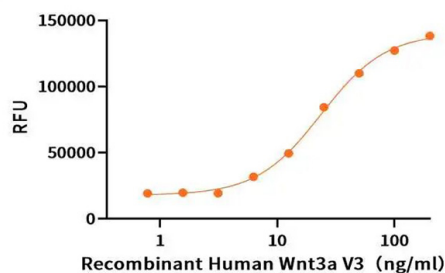
### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 0.01 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 25mM Tris-HCl, 500mM NaCl, pH8.2.

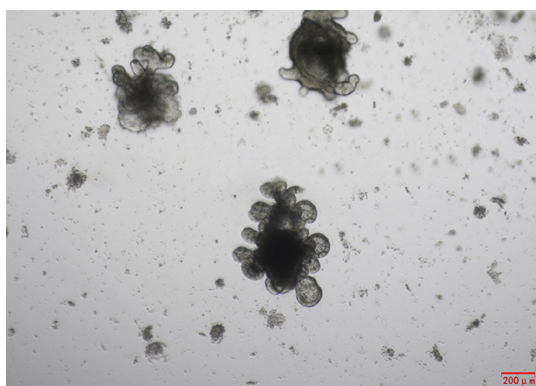
### Data



> 95 % as determined by reducing SDS-PAGE.



Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED<sub>50</sub> for this effect is 20-80 ng/ml.



Mouse Colon organoids were cultured with EGF (PKSH033687), Wnt3a (PKSH033972), Noggin (PKSM041300), and R-spondin 1 (PKSH033007). The organoids showed good morphology.

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## Background

Wnt-3a is one of 19 vertebrate members of the Wingless-type MMTV integration site (Wnt) family of highly conserved cysteine-rich secreted glycoproteins important for normal developmental processes. Required for normal embryonic mesoderm development and formation of caudal somites. Required for normal morphogenesis of the developing neural tube (By similarity). Mediates self-renewal of the stem cells at the bottom on intestinal crypts (in vitro).

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