

## Human Wnt-5a

<b>Name and Synonyms:</b>	Recombinant Human Wnt-5a, Wingless-type MMTV (mouse mammary tumor virus) integration site family member 5a
<b>Cat. # and size:</b>	P703-5                    5 µg P703-25                   25 µg P703-100                100 µg
<b>Purity:</b>	Greater than <b>85%</b> as determined by SDS-PAGE and HPLC analysis.
<b>Biological Activity:</b>	The activity was determined by using a TCF reporter gene assay in 293 cells transfected with Frizzled-4 and LRP-5. WNT-5a activates (instead of inhibits) the TCF reporter gene in this assay (Milkels AJ, et al., PLoS Biol, 4:e115, 2006).
<b>Formulation:</b>	Lyophilized in sterile filtered solution of PBS with 1% CHAPS.
<b>Application:</b>	This product is for research use only.
<b>Product Description:</b>	WNT-5a belongs to the class of WNT proteins that activate the “non-canonical” pathway. The predicted size of human WNT-5a is a monomeric protein containing 357 amino acid residues. Due to glycosylation, it migrates at an apparent molecular weight of ~45 kDa on SDS-PAGE under non-reducing conditions. 101Bio’s product is expressed from a human cell line in animal-free medium, and purified with a proprietary process that is distinct from the published method.
<b>Shipping / Storage:</b>	Ship at room temperature.  The lyophilized protein is stable for 6 months if stored at -80°C. Reconstituted protein is stable for two weeks at 4°C. Stored in aliquots at -80°C for longer term. Avoid repeated freeze and thaw.
<b>Country of Origin:</b>	USA
<b>Remark:</b>	Purified from human cells by a proprietary process. Xeno-free.
<b>Reconstitution:</b>	<b>Briefly spin the tube.</b> Add sterile H <sub>2</sub> O to the bottom of the tube to a concentration of 100 ng/uL. Because of the hydrophobic nature of this protein, further dilutions should be made in buffer or medium containing carrier proteins, such as albumin or serum.