

Product Sheet

WNT-3a, human recombinant

- Catalog #** W3a-H-005; W3a-H-025; W3a-H-100
- Synonyms** Wingless-type MMTV integration site family member 3a, human
- Description** WNT-3a is a member of the WNT family of signaling proteins that play key roles in embryonic development and the maintenance of adult tissues. WNT-3a is a prototypic canonical WNT that signals through the β -catenin pathway. The predicted size of human WNT-3a is a monomeric protein containing 328 amino acid residues. Due to glycosylation, it migrates at an apparent molecular weight of 38 - 41 kDa on SDS-PAGE under non-reducing conditions. StemRD's WNT-3a is produced from a human cell line overexpressing human Wnt-3a cDNA in protein-free medium. Purification is done by a proprietary process that is distinct from the published method.
- Formulation** Lyophilized in sterile filtered solution of PBS with 1% CHAPS
- Reconstitution** Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The lyophilized protein should be reconstituted in sterile H₂O 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.
- Stability** The lyophilized protein is stable for at least 6 months if stored at -80 degree C. Reconstituted protein is stable for at least two weeks at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid repeated freeze and thaw.
- Purity** Greater than 90% as determined by SDS-PAGE and HPLC analysis
- Biological Activity** The activity was determined by using a TCF reporter gene assay in cultured human cells. The EC50 ranges from 50 - 150 ng/ml.
- Country of Origin** USA

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