

Product Sheet

WNT-3a, mouse recombinant

Catalog #	W3a-M-005; W3a-M-025; W3a-M-100
Synonyms	Wingless-type MMTV integration site family member 3a, mouse
Description	WNT-3a is a member of the WNT family of signaling proteins that play a key role in embryonic development and the integrity of adult tissues. WNT-3a is a prototypic canonical WNT that signals through the β -catenin pathway. The predicted size of mouse WNT-3a is a monomeric protein containing 333 amino acid residues. Due to glycosylation, it migrates at an apparent molecular weight of 40 kDa by SDS-PAGE analysis under non-reducing conditions. StemRD's product is expressed from a mouse cell line overexpressing mouse WNT-3a. Purification is performed with 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 H ₂ O 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 1 year if stored at -80 degree C. Reconstituted protein is stable for at least 1 month 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 analysis
Biological Activity	The activity was determined by using a TCF reporter gene assay in NIH3T3 cells. The EC50 ranges from 50 - 150 ng/ml.
Country of Origin	USA

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