Product Sheet

WNT-5a, human recombinant

Catalog # W5a-H-100

Synonyms Wingless-type MMTV (mouse mammary tumor virus) integration site family member 5a

Description 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. StemRD'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.

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_2O 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 2 weeks at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid repeated freeze/thaw.

Purity Greater than 75% as determined by SDS-PAGE and HPLC analysis

Biological Activity 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).

Country of Origin USA

For Research Use Only. Not for Use in Humans.

StemRD
EMPOWERING STEM CELL R&D

332 Beach Road Burlingame, CA 94010 USA
www.stemrd.com PHONE: (650)-343-1888
info@stemrd.com FAX: (650)-343-1889