

Product Sheet

Frizzled-5 Fc Fusion, human recombinant

Catalog # HFZ5FC-050, HFZ5FC-250, HFZ5FC-1000

Description Frizzled-5 is one of the 10 mammalian Frizzled receptors for WNT proteins. The extracellular cycteine rich domain of Frizzleds bind to WNTs with nM affinity. When supplied as recombinant protein, this extracellular domain of Frizzled-5 acts as a soluble receptor, blocking the binding of WNTs to Frizzled on the cells.

StemRD's Frizzled-5 extracellular domain protein is fused to the N-terminus of the Fc domain of human IgG1. This fusion allows stabilization of the protein in vitro and in vivo and dimerization of the recombinant protein rendering high-affinity binding to WNTs. A similar protein, Frizzled-8 Fc fusion, has been used by Genentech scientists to show anti-tumor effect of WNT blockade in animal models (DeAlmeida VI et al, Cancer Res. 2007, 67:5371).

Expression is from CHO cells cultured in serum-free and protein-free medium. Purification of the fusion protein from conditioned culture medium is performed using protein A chromatography.

Formulation Lyophilized in sterile filtered solution of PBS.

Reconstitution Before reconstitution, a brief spin is recommend to drive down any material dislodged from the bottom of the tube. The lyophilized protein should be reconstituted in sterile H₂O to a desired concentration.

Stability The lyophilized protein is stable for at least one year if stored at -80 degree C. Reconstituted protein is stable for at least four 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 95% as determined by SDS-PAGE analysis

Biological Activity The activity was determined by using a TCF reporter gene assay in cultured human cells. The IC₅₀ ranges from 100 - 200 ng/ml in the inhibition of 100 ng/mL WNT-3a activity.

Country of Origin USA

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