

Human WISP1 Protein

Cat. No. WIP-HM101

Description

Source	Recombinant Human WISP1 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Thr23-Asn367.
Accession	O95388-1
Molecular Weight	The protein has a predicted MW of 39.1 kDa. Due to glycosylation, the protein migrates to 60-65 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

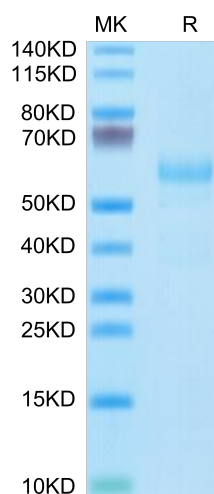
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated freeze-thaw cycles.

Background

The interplay between glioma stem cells (GSCs) and the tumor microenvironment plays crucial roles in promoting malignant growth of glioblastoma (GBM), the most lethal brain tumor. WISP1 is preferentially expressed and secreted by GSCs. Silencing WISP1 markedly disrupts GSC maintenance, reduces tumor-supportive TAMs (M2), and potently inhibits GBM growth. WISP1 signals through Integrin $\alpha 6 \beta 1$ -Akt to maintain GSCs by an autocrine mechanism and M2 TAMs through a paracrine manner.

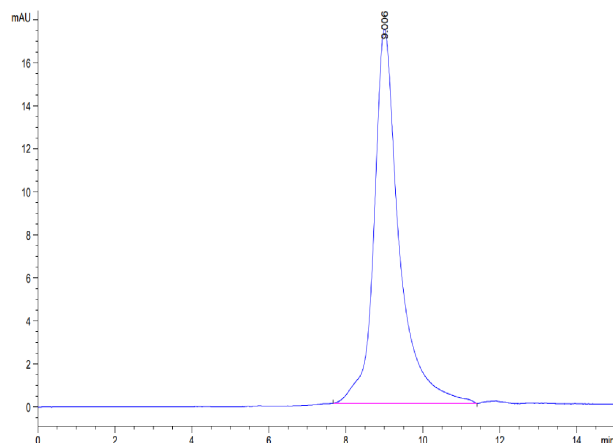
Assay Data

Tris-Bis PAGE



Human WISP1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human WISP1 is greater than 95% as determined by SEC-HPLC.