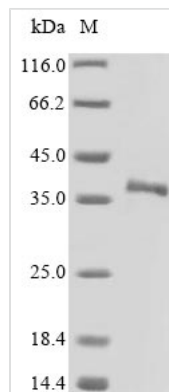




Recombinant Mouse Secreted frizzled-related protein 5 (Sfrp5)

Product Code	CSB-EP021141MO
Relevance	Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types. SFRP5 may be involved in determining the polarity of photoreceptor, and perhaps, other cells in the retina.
Abbreviation	Recombinant Mouse Sfrp5 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9WU66
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	APTRGQEYDYYGWQAEPLHGRSYSKPPQCLDIPADLPLCHTVGYKRMRLPNL LEHESLAEVKQQASSWLPLLAKRCHSDTQVFLCSLFAPVCLDRPIYPCRS LCE AARAGCAPLMEAYGFPWPEMLHCHKFPLDNDLCIAVQFGHLPATAPPVTKICA QCEMEHSADGLMEQMCSSDFVVKMRIKEIKIDNGDRKLIGAQKKKKLLKAGPL KRKDTKKLVLMKNGASCPCPQLDNLGTSFLVMGRKVEGQLLLTAVYRWDKK NKEMKFAVKFMFSYPCSLYYPFFYGAAEPH
Research Area	Stem Cells
Source	E.coli
Target Names	Sfrp5
Protein Names	Recommended name: Secreted frizzled-related protein 5 Short name= sFRP-5
Expression Region	22-314aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	37.2 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The region for expressing recombinant Mouse Sfrp5 contains amino acids 22-314. The theoretical molecular weight of the Sfrp5 protein is 37.2 kDa. This protein is generated in a e.coli-based system. The Sfrp5 coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant Sfrp5 protein in following stages of expression and purification.

The mouse-derived secreted frizzled-related protein 5 (Sfrp5) is a member of the SFRP family, known for modulating Wnt signaling. Sfrp5 acts as a soluble antagonist to Wnt ligands, preventing their interaction with Frizzled receptors. This interference regulates various cellular processes, including embryonic development, tissue homeostasis, and cell differentiation. In research, Sfrp5 has been implicated in adipose tissue biology and metabolic regulation. It plays a role in the regulation of adipogenesis and inflammation in adipose tissues, contributing to metabolic homeostasis. Additionally, studies explore the potential of Sfrp5 as a therapeutic target for obesity-related metabolic disorders and its involvement in insulin sensitivity.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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