重组人SC65蛋白

Recombinant SC65 protein (His tag)

目录号 Catalog Number	547873
同用名 Synonyms	Leprecan-like protein 4; Nucleolar autoantigen No55; Prolyl 3-hydroxylase family member 4; Synaptonemal complex protein SC65
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q92791
分子量 Molecular Weight	Predictes a molecular mass of 43.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKHHHHH HGGSQYEKYS FRGFPPEDLM PLAAAYGHAL EQYEGESWRE SARYLEAALR LHRLLRDSEA FCHANCSGPA PAAKPDPDGG RADEWACELR LFGRVLERAA CLRRCKRTLP AFQVPYPPRQ LLRDFQSRLP YQYLHYALFK ANRLEKAVAA AYTFLQRNPK HELTAKYLNY YQGMLDVADE SLTDLEAQPY EAVFLRAVKL YNSGDFRSST EDMERALSEY LAVFARCLAG CEGAHEQVDF KDFYPAIADL FAESLQCKVD CEANLTPNVG GYFVDKFVAT MYHYLQFAYY KLNDVRQAAR SAASYMLFDP KDSVMQQNLV YYRFHRARWG LEEEDFQPRE EAMLYHNQTA ELRELLEFTH MYLQ
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 19-378 aa (Q92791) were fused with N-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

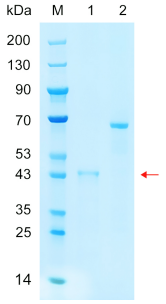
功能描述

研究背景 Background

Recombinant human Endoplasmic reticulum protein SC65 (P3H4) fragment (residues 19-378) is a high-quality protein product designed for structural and biochemical studies. This 360-amino acid fragment represents a stable and soluble unit, ideal for investigating collagen hydroxylation and fibril assembly mechanisms.
The full-length Endoplasmic reticulum protein SC65 (P3H4) is a critical component of a complex with PLOD1 and P3H3 that catalyzes lysine hydroxylation in collagen alpha chains. This enzymatic activity is essential for proper collagen fibril assembly, cross-linking, and overall extracellular matrix integrity. The protein's function directly contributes to normal bone density and skin stability. As an endoplasmic reticulum-resident protein, it operates within the cellular compartment responsible for protein folding and post-translational modifications, positioning it centrally in collagen biosynthesis pathways.

验证数据

SDS-PAGE



Recombinant SC65 protein (His tag) SDS-PAGE
M: Marker; Lane 1: SC65; Lane 2: BSA