

Cynomolgus SPARC Protein

Cat. No. SPA-CM101



Description

Source	Recombinant Cynomolgus SPARC Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala18-Ile303.
Accession	G7P8R2
Molecular Weight	The protein has a predicted MW of 33.82 kDa. Due to glycosylation, the protein migrates to 43-48 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

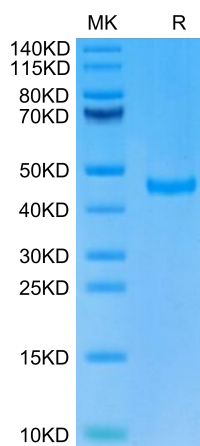
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Secreted protein acidic and rich in cysteine (SPARC/osteonectin/BM40) is one of the most abundant non-collagenous protein expressed in mineralized tissues. The capacity of SPARC to influence pathways involved in extracellular matrix assembly such as procollagen processing and collagen fibril formation as well as the capacity to influence osteoblast differentiation and osteoclast activity will be addressed.

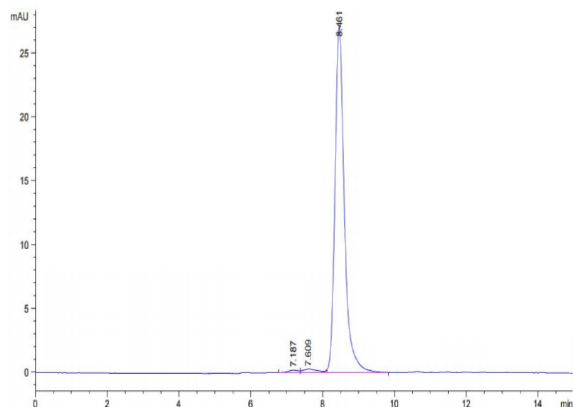
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



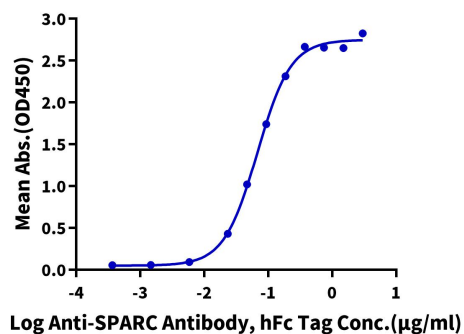
The purity of Cynomolgus SPARC is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Cynomolgus SPARC, His Tag ELISA

0.2µg Cynomolgus SPARC, His Tag Per Well



Immobilized Cynomolgus SPARC, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC50 of 67.8ng/ml determined by ELISA.