



Recombinant Human SPARC protein (SPARC) (Active)

Product Code	CSB-AP000311HU
Abbreviation	Recombinant Human SPARC protein (Active)
Uniprot No.	P09486
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, pH 7.4
Product Type	Other
Immunogen Species	Homo sapiens (Human)
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to inhibit the cell growth of Mv1Lu mink lung epithelial cells is less than 3.0 ug/mL, corresponding to a specific activity of >333 IU/mg.
Purity	>95% as determined by SDS-PAGE.
Sequence	MSYYHHHHHH DYDIPTTENL YFQGAMGSA+P QQEALPDETE VVEETVAEVT EVSVGANPVQ VEVGEFDDGA EETEEEVVAE NPCQNHCKH GKVCELDENN TPMCVCQDPT SCPAPIGEFE KVCSDNKTFF DSSCHFFATK CTLEGTKKGH KLHLDYIGPC KYIPPCLDSE LTFEPLMRD WLKNVLVTLY ERDEDNLLT EKQKLRVKKI HENEKRLEAG DHPVELLARD FEKNYNMYIF PVHWQFGQLD QHPIDGYLSH TELAPLRAPL IPMEHCTTRF FETCDLDNDK YIALDEWAGC FGIKQKDIDK DLVI
Research Area	Cancer
Source	E.coli
Target Names	SPARC
Expression Region	18-303aa
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	36.1 kDa
Protein Length	Full Length of Mature Protein
PubMed ID	3410046; 2838412; 2790009; 2338025; 15489334; 17974005; 3597437; 2306517; 3400777; 7495300; 9457905; 8548457; 9233787; 9501084
Image	



Description

Recombinant Human SPARC is a premium-grade, N-terminal 6xHis-tagged full-length protein that corresponds to the 18-303aa expression region of the Secreted protein acidic and rich in cysteine (SPARC). Designed for use in cancer research, this protein is expressed in *E. coli* and features exceptional purity, exceeding 95% as determined by both SDS-PAGE and HPLC. With endotoxin levels below 1.0 EU/μg, as determined by the LAL method, this product ensures minimal interference in experimental applications.

Recombinant Human SPARC is fully biologically active when compared to the standard. Its ED_{50} , ascertained by its ability to inhibit the cell growth of Mv1Lu mink lung epithelial cells, is less than 3.0 μg/mL. This corresponds to a specific activity of > 333 IU/mg, demonstrating the protein's effectiveness in various research contexts. The lyophilized powder form ensures convenient storage and utilization across a range of experiments.

Endotoxin

Less than 1.0 EU/μg as determined by LAL method.

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

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.