Recombinant mouse SPARC protein

Catalog Number: ATGP3945

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
18-302aa

UniProt No.
P07214

NCBI Accession No.
NP_033268

Alternative Names
Basement-membrane protein 40, BM-40,Osteonectin, ON, Secreted protein acidic and rich in cysteine, Sparc

PRODUCT SPECIFICATION

Molecular Weight
33.3kDa (291aa)

Concentration
0.25mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
<1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
SPARC, also known as osteonectin and BM40, is a secreted matricellular glycoprotein that belongs to a group of functionally related glycoproteins that includes tenascins C and X, thrombospondins 1 and 2, and osteopontin. It is a major bone-related protein that is also present in nonmineralized tissues and in platelets and is matricellular molecule regulating interactions between cells and their surrounding extracellular matrix (ECM). This protein is

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produced by fibroblasts, capillary endothelial cells, platelets and macrophages, especially in areas of tissue morphogenesis and remodeling. It shows context-specific effects, but generally inhibits adhesion, spreading and proliferation, and promotes collagen matrix formation. It is abundantly expressed in bone, where it promotes osteoblast differentiation and inhibits adipogenesis. Recombinant mouse SPARC, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

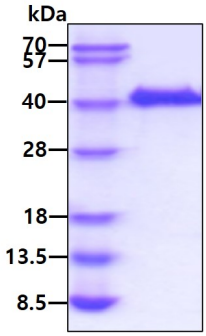
APQQTEVAEE IVEEETVVEE TGVPVGANPV QVEMGEFEDG AEETVEEVVA DNPCQNHHCK HGKVCELDES NTPMCVCQDP TSCPAPIGEF EKVCSNDNKT FDSSCHFFAT KCTLEGTKKG HKLHLDYIGP CKYIAPCLDS ELTEFPLRMR DWLKNVLVTL YERDEGNNLL TEKQKLRVKK IHENEKRLEA GDHPVELLAR DFEKNYNMYI FPVHWQFGQL DQHPIDGYLS HTELAPLRAP LIPMEHCTTR FFETCDLDND KYIALEEWAG CFGIKEQDIN KDLVI<HHHHH H>

General References

Mizuho Fukunaga-Kalabi., et al, (2008) Cancer Microenviron. 1:93-102.
Katarina Kos., et al, (2010) Nat Rev Endocrinol. 6:225-235.
Sharon L I Wong., et al, (2017) Br J Pharmacol. 174:3-14.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain