

Recombinant Human SPARC related modular calcium binding 1 Protein, His tagged

Cat. No. SMOC1-024H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human SMOC-1 protein (Q9H4F8) (His 27-Val 434) with a His tag at the C-terminus was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

27-434aa

Description

SPARC-related modular calcium-binding protein 1, also known as secreted modular calcium-binding protein 1 and SMOC1, is a member of the SPARC family. SMOC1 is widely expressed in many tissues with a strongest signal in ovary. It contains two EF-hand domains, one Kazal-like domain and two thyroglobulin type-1 domains. Extracellular matrix proteins have been implicated in the regulation of osteoblast differentiation of bone marrow-derived mesenchymal stem cells (BMSCs) through paracrine or autocrine mechanisms. SMOC1 is a regulator of osteoblast differentiation of BMSCs. SMOC1 is highly expressed and secreted in BMSCs stimulated with osteogenic medium (OSM). SMOC1 and SMOC2 are matricellular proteins thought to influence growth factor signaling, migration, proliferation, and angiogenesis. SMOC1 and SMOC2 may mediate intercellular signaling and cell type-specific differentiation during gonad and reproductive tract development.

Tag

C-His

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Molecular Mass	46.7 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

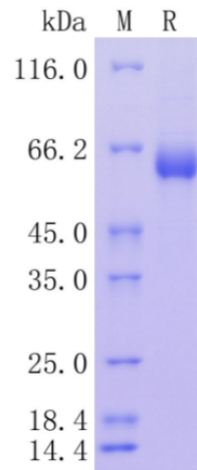
Gene Name	SMOC1 SPARC related modular calcium binding 1 [Homo sapiens (human)]
Official Symbol	SMOC1
Synonyms	SMOC1; SPARC related modular calcium binding 1; SPARC-related modular calcium-binding protein 1; secreted modular calcium-binding protein 1; OAS;
Gene ID	64093
mRNA Refseq	NM_001034852
Protein Refseq	NP_001030024
MIM	608488

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UniProt ID

Q9H4F8

Protein on SDS-PAGE under reducing (R) condition.



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