

SMOC1 Protein, Human (408a.a, HEK293, His)

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| Cat. No.: | HY-P701324 |
| Synonyms: | SPARC-related modular calcium-binding protein 1; SMOC-1 |
| Species: | Human |
| Source: | HEK293 |
| Accession: | Q9H4F8-1 (H27-V434) |
| Gene ID: | 64093 |
| Molecular Weight: | 60-70 |

PROPERTIES

AA Sequence

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H R T T G P R F L I   S D R D P Q C N L H   C S R T Q P K P I C   A S D G R S Y E S M
C E Y Q R A K C R D   P T L G V V H R G R   C K D A G Q S K C R   L E R A Q A L E Q A
K K P Q E A V F V P   E C G E D G S F T Q   V Q C H T Y T G Y C   W C V T P D G K P I
S G S S V Q N K T P   V C S G S V T D K P   L S Q G N S G R K D   D G S K P T P T M E
T Q P V F D G D E I   T A P T L W I K H L   V I K D S K L N N T   N I R N S E K V Y S
C D Q E R Q S A L E   E A Q Q N P R E G I   V I P E C A P G G L   Y K P V Q C H Q S T
G Y C W C V L V D T   G R P L P G T S T R   Y V M P S C E S D A   R A K T T E A D D P
F K D R E L P G C P   E G K K M E F I T S   L L D A L T T D M V   Q A I N S A A P T G
G G R F S E P D P S   H T L E E R V V H W   Y F S Q L D S N S S   N D I N K R E M K P
F K R Y V K K K A K   P K K C A R R F T D   Y C D L N K D K V I   S L P E L K G C L G
V S K E G R L V
  
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Appearance Lyophilized powder

Formulation Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background SMOC1 Protein is a matricellular protein that interferes with growth factor receptor signalling. SMOC1 Protein plays

essential roles in both eye and limb development and is a regulator of osteoblast differentiation. SMOC1 encodes a multi-domain secreted protein that may have a critical role in ocular and limb development. Mutations in this gene are associated with microphthalmia and limb anomalies^{[1][2]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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