

SCUBE2 recombinant protein

Human SCUBE2(441-659) Protein, hFc Tag

CATALOG #
AAA47547

HOST
HEK293

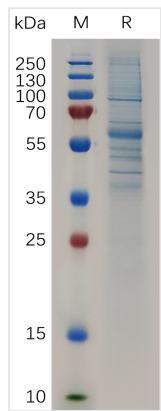
PRODUCT SYNONYMS

SCUBE2; Human SCUBE2(441-659) Protein; hFc Tag; CEGP1; Scube/You; SCUBE2 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Concentration	0.328 mg/mL (varies by lot)
Tag	hFc tag
Visual Inspection	Test: Lyophilization ; Specification: Dried white powder ; Result : Pass Test: Vial label ; Specification: Label aligned and complete ; Result : Pass Test: Bottle Sealing (manual check) ; Specification: Sealed tight ; Result: Pass
Quantity	Test: Bradford Method ; Specification: $\geq$ Spcified quantity ; Result: Pass
Other Properties	Test: pH ; Specification: 7.4 ± 0.5 ; Result: Pass
Reconstitution	1) Before opening the cap, centrifuge the sample tube at 5000g for 3-5 min at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube. 2) Dissolved lyophilized sample in sterile and low endotoxin water based on the above concentration, e.g. use 281.69 ul (100/0.355) water to disolve 100ug lyophilized product. 3)After adding sterile water , cover the lid and mix them by gently tapping the tube for 5-10 times. Note: Do not vortex or vigorously pipette the sample.
Molecular Characterization	SCUBE2(Asp441-Asn659) hFc(Glu99-Ala330)
Preparation and Storage	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

IMAGES



SDS-PAGE
Figure 1. Human SCUBE2 (441-659) Protein, hFc Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

Related Product Information for SCUBE2 recombinant protein	Recombinant human SCUBE2(441-659) protein with C-terminal human Fc tag Lipid-binding protein required for SHH long-range signaling by binding to the dually lipid-modified SHH (ShhNp) and by promoting ShhNp mobilization, solubilization and release from the cell membrane (PubMed:22902404, PubMed:22677548). Acts by enhancing the proteolytic processing (shedding) of the lipid-modified N- and C-terminal of ShhNp at the cell surface (PubMed:24522195). Synergizes with DISP1 to increase SHH secretion (PubMed:22902404). Probable cell surface coreceptor for VEGFR2 involved in VEGFR2-mediated angiogenesis (PubMed:27834687).
Product Categories/Family for SCUBE2 recombinant protein	Bioactive Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	283046663
NCBI GeneID	57758
NCBI Accession #	NP_066025
NCBI GenBank Nucleotide #	NM_020974.2
UniProt Accession #	Q9NQ36; Q2NKQ8; Q6ZW11
Molecular Weight	Molecular Weight The protein has a predicted molecular mass of 50.2 kDa after removal of the signal peptide. The apparent molecular mass of SCUBE2(441-659)-hFc is approximately 35-55 kDa due to glycosylation.
NCBI Official Full Name	signal peptide, CUB and EGF-like domain-containing protein 2 isoform 1
NCBI Official Synonym Full Names	signal peptide, CUB domain, EGF-like 2
NCBI Official Symbol	SCUBE2
NCBI Official Synonym Symbols	CEGB1; CEGF1; CEGP1
NCBI Protein Information	signal peptide, CUB and EGF-like domain-containing protein 2
UniProt Protein Name	Signal peptide, CUB and EGF-like domain-containing protein 2
UniProt Gene Name	SCUBE2
UniProt Synonym Gene Names	CEGP1
UniProt Entry Name	SCUB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/scube2-recombinant-protein-hek293/47547>