

Active Recombinant Human SCUBE3 Protein, HA-tagged

Cat. No. SCUBE3-66H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SCUBE3 Protein (Ala21-Lys993) with an N-terminal HA-tag (YPYDVDPDYA) was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	21-993 a.a.
Description	This gene encodes a member of the signal peptide, complement subcomponents C1r/C1s, Uegf, bone morphogenetic protein-1 and epidermal growth factor-like domain containing protein family. Overexpression of this gene in human embryonic kidney cells results in secretion of a glycosylated form of the protein that forms oligomers and tethers to the cell surface. This gene is upregulated in lung cancer tumor tissue compared to healthy tissue and is associated with loss of the epithelial marker E-cadherin and with increased expression of vimentin, a mesenchymal marker. In addition, the protein encoded by this gene is a transforming growth factor beta receptor ligand, and when secreted by cancer cells, it can be cleaved in vitro to release the N-terminal epidermal growth factor-like repeat domain and the C-terminal complement subcomponents C1r/C1s domain. Both the full length protein and C-terminal fragment can bind to the transforming growth factor beta type II receptor to promote the epithelial-mesenchymal transition and tumor angiogenesis. Alternative splicing results in multiple transcript variants.

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Bio-activity	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. The ED50 for this effect is typically 0.25-1.25 µg/mL.
Molecular Mass	108.3 kDa (Monomer)
N-terminal Sequence Analysis	Tyr & Arg538
Endotoxin	<0.10 EU/µg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain
Applications	Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 250 µg/mL in PBS.

GENE INFORMATION

Gene Name	SCUBE3 signal peptide, CUB domain and EGF like domain containing 3 [Homo sapiens (human)]
Official Symbol	SCUBE3
Synonyms	SCUBE3; signal peptide, CUB domain and EGF like domain containing 3; CEGF3;

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SSFSC2; signal peptide, CUB and EGF-like domain-containing protein 3; CUB domain and EGF-like repeat containing 3

Gene ID [222663](#)

mRNA Refseq [NM_152753](#)

Protein Refseq [NP_689966](#)

MIM [614708](#)

UniProt ID [Q8IX30](#)

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