

Spondin-2/SPON2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70142
Synonyms:	rHuSpondin-2/SPON2, His; Spondin-2; Differentially expressed in cancerous and non-cancerous lung cells 1; DIL-1; Mindin; SPON2
Species:	Human
Source:	HEK293
Accession:	AAH02707.1 (Q27-V331)
Gene ID:	10417
Molecular Weight:	38-42 kDa

PROPERTIES

AA Sequence	<p>Q P L G G E S I C S A R A P A K Y S I T F T G K W S Q T A F P K Q Y P L F R P P</p> <p>A Q W S S L L G A A H S S D Y S M W R K N Q Y V S N G L R D F A E R G E A W A L</p> <p>M K E I E A A G E A L Q S V H E V F S A P A V P S G T G Q T S A E L E V Q R R H</p> <p>S L V S F V V R I V P S P D W F V G V D S L D L C D G D R W R E Q A A L D L Y P</p> <p>Y D A G T D S G F T F S S P N F A T I P Q D T V T E I T S S S P S H P A N S F Y</p> <p>Y P R L K A L P P I A R V T L L R L R Q S P R A F I P P A P V L P S R D N E I V</p> <p>D S A S V P E T P L D C E V S L W S S W G L C G G H C G R L G T K S R T R Y V R</p> <p>V Q P A N N G S P C P E L E E E A E C V P D N C V</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.4.
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 ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Spondin-2 protein is a matricellular protein and a member of Mindin F-Spondin family with antigen binding, lipopolysaccharide binding and metal ion binding activity. Spondin-2 is essential for recruiting lymphocytes and initiating immune responses, represents a unique pattern recognition molecule for microbial pathogens. Spondin-2 is involved in cell adhesion and act upstream of or within several processes, including defense response to other organism; opsonization;
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and positive regulation of cytokine production. Spondin-2 also functions as an integrin ligand for inflammatory cell recruitment and T-cell priming. The binding of bacteria by Spondin-2 promotes phagocytosis of the bacterium and stimulates the production of proinflammatory cytokines by the macrophage. Spondin-2 is found to promote infiltration of M1-like macrophages and inhibits tumor metastasis in cancer research^{[1][2][3]}.

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

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