

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

<b>Cat. No.:</b>	HY-P70142
<b>Synonyms:</b>	rHuSpondin-2/SPON2, His; Spondin-2; Differentially expressed in cancerous and non-cancerous lung cells 1; DIL-1; Mindin; SPON2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	AAH02707.1 (Q27-V331)
<b>Gene ID:</b>	10417
<b>Molecular Weight:</b>	39-47 kDa

### PROPERTIES

<b>AA Sequence</b>	<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            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            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            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            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            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            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            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>
<b>Biological Activity</b>	Measured by the ability to enhance BMP-2 induced alkaline phosphatase activity in MC3T3-E1 cells. The ED <sub>50</sub> for this effect is approximately 0.949 µg/mL in the presence of 0.113 µg/mL of BMP-2, corresponding to a specific activity is 1.054×10 <sup>3</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.4 or PBS, pH 7.4, 8% trehalose.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years from date of receipt. 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.
<b>Shipping</b>	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 a 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; 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<sup>[1][2][3]</sup>.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA