SunLong Biotech Co.,LTD
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Recombinant Surfactant Associated Protein D (SPD)

Catalog Number: SIPB527Hu01 **Spec: 10ug**

Product Name	Recombinant Surfactant Associated Protein D (SPD)
Catalog Number	SIPB527Hu01
Organism Species	Human
Source	Prokaryotic expression
Host	E.coli
Residues	Ala21~Phe375
Tags	N-terminal His Tag
Subcellular Location	Secreted, Extracellular matrix
Purity	> 80%
Traits	Freeze-dried powder
Buffer formulation	PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Original Concentration	120μg/mL
Applications	Positive Control; Immunogen; SDS-PAGE; WB. (May be suitable for use in other assays to be determined by the end user.)
Predicted isoelectric point	6.3
Predicted Molecular Mass	36.8kDa
Accurate Molecular Mass	43kDa as determined by SDS-PAGE reducing conditions.
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.

[USAGE]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8ºC for one month.

Aliquot and store at -80ºC for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

AEMKTYSHRT MPSACTLVMC SSVESGLPGR
DGRDGREGPR GEKGDPGLPG AAGQAGMPGQ AGPVGPKGDN GSVGEPGPKG
DTGPSGPPGP PGVPGPAGRE GPLGKQGNIG PQGKPGPKGE AGPKGEVGAP
GMQGSAGARG LAGPKGERGV PGERGVPGNT GAAGSAGAMG PQGSPGARGP
PGLKGDKGIP GDKGAKGESG LPDVASLRQQ VEALQGQVQH LQAAFSQYKK
VELFPNGQSV GEKIFKTAGF VKPFTEAQLL CTQAGGQLAS PRSAAENAAL
QQLVVAKNEA AFLSMTDSKT EGKFTYPTGE SLVYSNWAPG EPNDDGGSED
CVEIFTNGKW NDRACGEKRL VVCEF

[IDENTIFICATION]

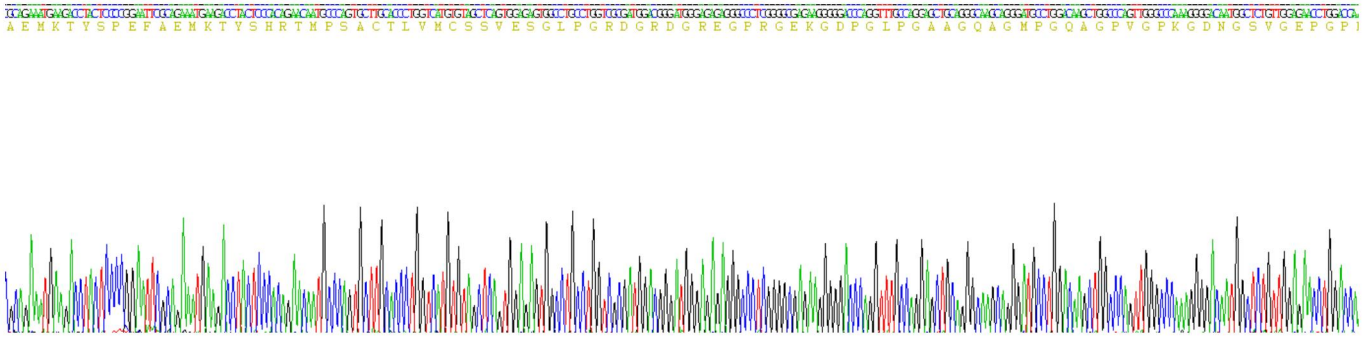


Figure. Gene Sequencing (Extract)

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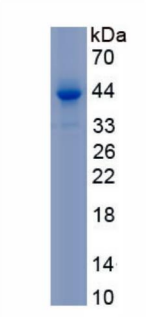


Figure. SDS-PAGE

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.