

# Recombinant Surfactant Associated Protein D (SPD) Instruction Manual

**SIPB527Hu01**

**Homo sapiens (Human)**

<b>Source</b>	Prokaryotic expression
<b>Host</b>	E.coli
<b>Endotoxin Level</b>	<1.0EU per 1µg (determined by the LAL method)
<b>Subcellular Location</b>	Secreted, Extracellular matrix
<b>Predicted Molecular Mass</b>	36.8kDa
<b>Accurate Molecular Mass</b>	43kDa(Analysis of differences refer to the manual)
<b>Residues &amp; Tags</b>	Ala21~Phe375 with N-terminal His Tag
<b>Buffer Formulation</b>	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
<b>Traits</b>	Freeze-dried powder
<b>Purity</b>	> 90%
<b>Isoelectric Point</b>	6.3
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

## SEQUENCE

```
AEMKTYSHRT MPSACTLVMC SSVESGLPGR
DGRDREGPR GEKGDPLPG 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 EPNDDGGSSED
CVEIFTNGKW NDRACGEKRL VVCEF
```

## USAGE

Reconstitute in ddH<sub>2</sub>O to a concentration of 0.1-0.5 mg/mL. Do not vortex.

## STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

## STABILITY

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.

## Image



AEHRTTSPEFAENRTTSHRTMPSACTLVKCSSVESGLPGRDGRDGRGPRGEXGDPGLPGAAGQAGHPGQAGPVGPKGDNGSVGEPGPI

SDS-PAGE Image

## **[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.