

Recombinant porcine SP-D

Catalog S001

Lot 742

product specification sheet: PS-S001



H.R. Kruytgebouw

Padualaan 8

3584 CH Utrecht

The Netherlands

Product description

Porcine SP-D is a 378 amino-acid trimeric glycoprotein, glycans at positions 90 and 323, and the trimerisation takes place via the 177 amino-acid residue long collagen structure. SP-D contributes to the lung's defense against inhaled microorganisms and it may participate in the extracellular reorganization or turnover of pulmonary surfactant. Sp-D binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.

Reference sequences:	NM_214110 NP_999275 Swiss-prot Q9N1X4
Alternative names:	Lung surfactant protein D Collectin-7 p-PSP-D
Gene ID:	397198

Full-length porcine SP-D was cloned, the protein was over-expressed in HEK293EBNA1 cells and was purified to homogeneity. Each vial contains 100 µg docameric SP-D at 0.5 mg/ml. The purity is > 97 %.

Storage and stability

SP-D should be stored at - 80 °C (stable for at least 1 year). The TBS buffer contains 5 mM HEPES, 0.9 % NaCl pH 7.4 without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

Sequence

mlllplsvllltqpprslgaemktysqravanacalvmcspmenglpgrdgrdgregprgekdpplpgavgragmpglagpvpgp
kgdngstgepgakgdigpcgppppgipgpagkegpsgqqgnigppgtgpkgetgpkgevgalgmqgstgargpaglkg
ergapgergapgsagaagpagatgpqgpgsargppglkgdrgppgergakgesglpgitalrqqvvtlqqvqrlqkafsqykkv
elfpngrgvgekifktggfektfdqdaqvctqaggqmasprsetenealsqlvtaqnkaafmsmdiktegnftyptgeplvyanwap
gepnnggsgaencveifpngkwndkacgelrlvicef*

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