

Overview

Synonyms	SP-D; SFTPD; PSP-D; COLEC7; PSPD; SFTP4
Description	<p>Surfactant protein D is a member of the collectin family of innate immune modulators. It is constitutively secreted by alveolar lining cells and epithelium associated with tubular structures, that contains a N-terminal collagen-like domain and a C-terminal lectin domain that are characteristic of members of the collectin family of proteins, and also shows calcium-dependent binding to specific saccharides. Besides it is involved in the development of acute and chronic inflammation of the lung. Several human lung diseases are characterized by decreased levels of bronchoalveolar SP-D.</p> <p>Recombinant Human SP-D produced in <i>HEK 293</i> cells is a polypeptide chain containing 355 amino acids. A fully biologically active molecule, rhSP-D has a molecular mass of 40-45 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Species	Human
Source	HEK293
Biological Activity	N/A
Sequence	<p>AEMKTYSHRT MPSACTLVMC SSVESGLPGR DGRDREGPR GEKGDPLPG AAGQAGMPGQ AGPVGPKGDN GSVGEPGPKG DTGSPGPPGP PGVPGPAGRE GPLGKQGNIG PQGKPGPKGE AGPKGEVGP GMQGSAGARG LAGPKGERGV PGERGVPGNT GAAGSAGAMG PQGSPGARGP PGLKGDGKIP GDKGAKGESG LPDVASLRQQ VEALQGQVQH LQAAFSQYKK VELFPNGQSV GEKIFKTAGF VKPFTEAQLL CTQAGQLAS PRSAAENAAL QQLVVAKNEA AFLSMTDSKT EGKFTYPTGE SLVYSNWAPG EPNDDGGSSED CVEIFTNGKW NDRACGEKRL VVCEF</p>

Properties

Measured Molecular Weight	40-45kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by reducing SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	<0.2 EU/µg, determined by LAL
Storage	Lyophilized recombinant Human SP-D remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human SP-D should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
Note	For research use only

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