

Product datasheet for **TP727054**

Sftpd Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Pulmonary Surfactant-associated Protein D/SP-D (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Ala20-Phe374
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM MES,150mM NaCl,Ph7.4.
Note:	Recombinant Mouse Pulmonary Surfactant-associated Protein D is produced by our Mammalian expression system and the target gene encoding Ala20-Phe374 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	20390
UniProt ID:	P50404
Summary:	Pulmonary surfactant-associated protein D (SPâ€™D) is a 43 kDa member of the collectin family of innate immune modulators. Mouse SPâ€™D cDNA encodes a 19 aa signal sequence and a 355 aa mature region with a 25 aa Nâ€™terminal linkingâ€™region, a 177 aa hydroxyproline and hydroxylysine collagenâ€™like domain, a 46 aa coiledâ€™coil segment, and a 106 aa, Câ€™terminal collectinâ€™like Câ€™type lectin domain . SPâ€™D is found in serum, plasma, bronchoâ€™alveolar lavage (BAL) fluid, and amniotic fluid. It also binds SIRP alpha and the calreticulin/CD91 complex on macrophages. SPâ€™D contributes to the lung's defense against inhaled microorganisms, organic antigens and toxins. It Interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. It may participate in the extracellular reorganization or turnover of pulmonary surfactant. It binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.



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