

## 32-7832: Recombinant Mouse Pulmonary Surfactant-associated Protein D/SP-D (C-6His)

**Gene :** Sftpd  
**Gene ID :** 20390  
**Uniprot ID :** P50404

### Description

Source: Human Cells.  
MW :36.7kD.

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. SP-D (surfactant protein-D) is a 43 kDa member of the collectin family of innate immune modulators. Mouse SP-D cDNA encodes a 19 aa signal sequence and a 355 aa mature region with a 25 aa N-terminal linking-region, a 177 aa hydroxyproline and hydroxylysine collagen-like domain, a 46 aa coiled-coil segment, and a 106 aa, C-terminal collectin-like C-type lectin domain .SP-D is usually found as a glycosylated, disulfide-linked 150 kDa alpha -helical coiled-coil trimer with a "head" of three symmetrical CRDs . SP-D also binds SIRP alpha and the calreticulin/CD91 complex on macrophages.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** AEMKSLSQRSVPNTCTLVMCSPTENGLPGRDGRDGRGREGPRGEKGDPLPGPMGLSGLQGPTGVPVGPKEGNG SAGEPGPKGERGLSGPPGLPGIPGAGKEGPGKQGNIGPQKPKGKGEAGPKGEVGPAGPMQGSTGAKGSTG PKGERGAPGVQGAPGNAGAAGPAGPAGPQGAPGSRGPPGLKGDGRGVPDGRGKIGESGLPDSAALRQQMEAL KGKLRLEVAFSHYQKAALFPDGRSVGDKIFRTADSEKPFEDAQEMCKQAGGQLASPRSATENAAIQQLITAH NKA AFLSMTDVGTEGKFTYPTGEPLVYSNWAPGEPNNGGAENCVEIFTNGQWWDKACGEQRLVICEFVDHH HHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.