

Product datasheet for PH303246

SFTPC (NM_003018) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SFTPC MS Standard C13 and N15-labeled recombinant protein (NP_003009)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203246
Predicted MW:	21.1 kDa
Protein Sequence:	>RC203246 protein sequence Red=Cloning site Green=Tags(s) MDVGSKEVLMESPPDYSAAPRGRFGIPCCPVHLKRLLIIVVVVVLIIVVIVGALLMGLHMSQKHTMVL MSIGAPEAQQLALSEHLVTTATFSIGSTGLVYDYQQLLIAYKPAPGTCCYIMKIAPEIPSLEALNRK VHNFQMECSLQAKPAVPTSKLGQAEGRDAGSAPSGGDP AFLGMAVNTLCGEVPLYYI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003009
RefSeq Size:	989
RefSeq ORF:	591
Synonyms:	BRICD6; PSP-C; SFTP2; SMDP2; SP-C; SP5
Locus ID:	6440
UniProt ID:	P11686 , A0A0S2Z4Q0



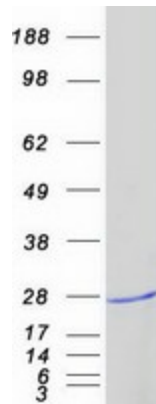
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Cytogenetics: 8p21.3

Summary: This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 2, also called pulmonary alveolar proteinosis due to surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and adults. Alternatively spliced transcript variants encoding different protein isoforms have been identified.[provided by RefSeq, Feb 2010]

Protein Families: Secreted Protein, Transmembrane

Product images:



Coomassie blue staining of purified SFTPC protein (Cat# [TP303246]). The protein was produced from HEK293T cells transfected with SFTPC cDNA clone (Cat# [RC203246]) using MegaTran 2.0 (Cat# [TT210002]).