

## Recombinant Human SFTPA2, His-tagged

Cat. No. SFTPA2-188H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human Pulmonary Surfactant-Associated Protein A2/SFTPA2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Glu21-Phe248) of Human SFTPA2 fused with a polyhistidine tag at the C-terminus.

**Species** Human

**Source** HEK293

**Description** Pulmonary Surfactant-Associated Protein A2 (SFTPA2) is a member of the SFTPA family. SFTPA2 is a secreted protein and contains one C-type lectin domain and one collagen-like domain. In the presence of calcium ions, it binds to surfactant phospholipids and contributes to lowering the surface tension at the air-liquid interface in the alveoli of the mammalian lung and is essential for normal respiration. Defects in SFTPA2 are a cause of pulmonary fibrosis idiopathic, and results in acute lung injury with subsequent scarring and endstage lung disease.

**AA Sequence**  
 EVKDVCVGSPIPGTPGSHGLPGRDGRDGVKGDPPGPMGPPGETPCPPGNG  
 LPGAPGVPGER GEKGEAGERGPPGLPAHLDEELQATLHDFRHQILQTRGALSLSLQG  
 SIMTVGEKVFSSNGQSITFDA IQEACARAGGRIAVPRNPEENEAIASFVKKYNTYAYV  
 GLTEGSPSGDFRYS DGPVNYTNWYRGE PAGRGKEQC VEMYTDGQW NDRNCLY  
 SRLTICEFVDHHHHHHH

**Endotoxin** Less than 0.1 ng/μg (1 IEU/μg).

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**Purity**

Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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