

Recombinant Human FLAP Protein

Catalog No.: RP02837 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	241	P20292

Tags

C-His

Synonyms

Arachidonate 5-lipoxygenase-activating protein; ALOX5AP; FLAP; MK-886-binding protein

Product Information

Source	Purification
Baculovirus-Insect Cells	> 90% by SDS-PAGE.

Endotoxin

<1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 150mM NaCl, 10% gly, pH 7.4, 0.5% triton, 5mM DTT.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Arachidonate 5-Lipoxygenase-Activating Protein (ALOX5AP), also known as FLAP, belongs to the MAPEG family. ALOX5AP/FLAP is an essential partner of 5-LO for this process. The FLAP (ALOX5AP) gene has been linked to risk for myocardial infarction, stroke and restenosis, reigniting pharmaceutical interest in this target. It had been found that ALOX5AP/FLAP is a key enzyme in leukotriene formation, in both human pulmonary microvascular endothelial cells and a transformed human brain endothelial cell line. In addition, the protein FLAP has recently been identified as an emerging target in metabolic disease. In fact, FLAP is overexpressed in the adipose tissue of patients and experimental animals with obesity.

Basic Information

Description

Recombinant Human FLAP/ALOX5AP Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Pro161) of human FLAP/ALOX5AP (Accession #NP_001620.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

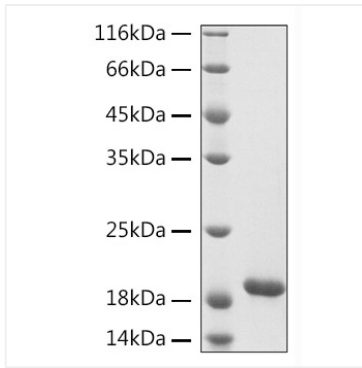
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human FLAP/ALOX5AP Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 19 kDa.