PRODUCT INFORMATION

Target	F2RL2
Synonyms	F2RL2, PAR3, Protease-activated receptor 3, Thrombin receptor-like 2, Coagulation factor II receptor-like 2
Description	Recombinant human F2RL2 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	O00254
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	F2RL2(Thr39-Thr94) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 32.2 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Background	F2RL2 (Protease-activated receptor 3, PAR3) is a G-protein coupled receptor (GPCR) activated by thrombin and other proteases. It primarily couples to Gq/11 and Gi proteins, initiating phospholipase C activation, intracellular Ca^{2+} mobilization, and MAPK signaling. F2RL2 is expressed in platelets, endothelial cells, and vascular smooth muscle, where it participates in hemostasis, platelet activation, vascular inflammation, and thrombosis. Dysregulation of F2RL2 signaling is linked to coagulation disorders and cardiovascular diseases, making it a potential therapeutic target in thrombosis and vascular pathology.
Usage	Research use only
Conjugate	Unconjugated

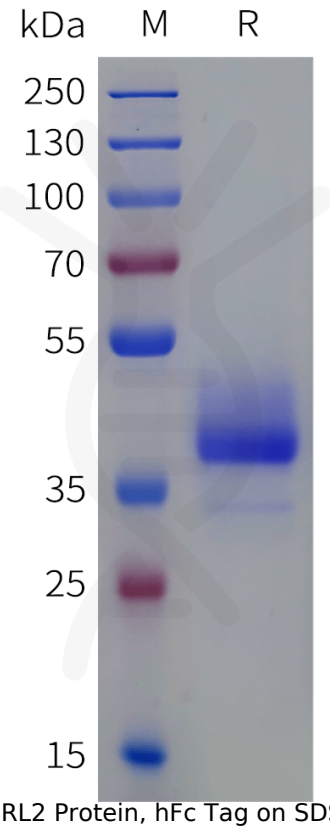

Figure 1. Human F2RL2 Protein, hFc Tag on SDS-PAGE under reducing condition.