PRODUCT INFORMATION

Target	P2RY12
Synonyms	ADP-glucose receptor (ADPG-R); P2T(AC); P2Y12; HORK3; SP1999
Description	Recombinant human P2RY12 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	Q9H244
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	P2RY12(Met1-Leu27) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 29.1 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.
Background	P2RY12 encodes the P2Y purinoceptor 12, a G-protein coupled receptor (GPCR) that primarily responds to adenosine diphosphate (ADP). It couples to Gi proteins, leading to inhibition of adenylyl cyclase and reduction of intracellular cAMP levels. P2RY12 is highly expressed on platelets, where it plays an essential role in platelet activation, aggregation, and thrombus formation. It is the pharmacological target of antiplatelet drugs such as clopidogrel, prasugrel, and ticagrelor. Beyond the circulatory system, P2RY12 is also expressed in microglia within the central nervous system, where it regulates microglial chemotaxis and homeostatic responses. Dysregulation of P2RY12 is implicated in thrombosis, stroke, and neuroinflammation.
Usage	Research use only
Conjugate	Unconjugated

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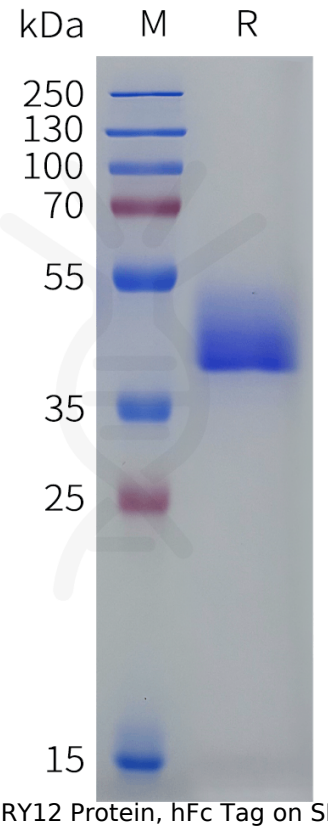

Figure 1. Human P2RY12 Protein, hFc Tag on SDS-PAGE under reducing condition.

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