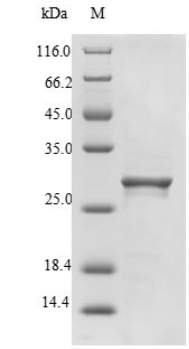
Recombinant Calloselasma rhodostoma Snaclec rhodocytin subunit alpha

Product Code	CSB-EP888242CBG
Relevance	Elicits platelet aggregation by the binding to the C-type lectin domain family 1 member B (CLEC1B/CLEC2). Binding leads to tyrosine phosphorylation in the Cytoplasmic domain tail of CLEC1B, which promotes the binding of spleen tyrosine kinase (Syk), subsequent activation of PLC-gamma-2, and platelet activation and aggregation. Binding to GPIbalpha (GP1BA) and alpha-2/beta-1 (ITGA2/ITGB1) may also induce aggregation, but this is controversial.
Abbreviation	Recombinant Calloselasma rhodostoma Snaclec rhodocytin subunit alpha protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9I841
Alias	Aggretin alpha chain Rhodoaggretin subunit alpha
Product Type	Recombinant Protein
Immunogen Species	Calloselasma rhodostoma (Malayan pit viper) (Agkistrodon rhodostoma)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	GLEDCDFGWSPYDQHCYQAFNEQKTWDEAEKFCRAQENGAHLASIESNGEA DFVSWLISQKDELADEDYVWIGLRAQNKEQQCSSEWSDGSSVSYENLIDLHT KKCGALEKLTGFRKWVNYYCEQMHAFVCKLLPY
Research Area	Others
Source	E.coli
Protein Names	Recommended name: Rhodocytin subunit alpha Alternative name(s): Aggretin alpha chain
Expression Region	1-136aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	31.8kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The full-length cDNA ORF of Calloselasma rhodostoma Snaclec rhodocytin subunit alpha was N-terminally tagged a 6xHis-SUMO and then expressed in the E.coli cells. The recombinant Calloselasma rhodostoma Snaclec rhodocytin subunit alpha thus obtained was purified using SDS-PAGE analysis and got over 90% of purity. Under reducing conditions, this protein migrated to an approximately 28 kDa molecular mass band on the SDS-PAGE gel. This recombinant Snaclec rhodocytin subunit alpha protein may be used to produce specific antibodies or in the studies of snaclec rhodocytin-mediated signal transduction.

Snaclec rhodocytin is a disulfide?linked heterodimeric C?type lectin derived from Calloselasma rhodostoma and is made up of α?subunits and β?subunits. The interaction between snaclec rhodocytin and C?type lectin?like receptor 2 (CLEC-2) induces platelet aggregation. CLEC?2 physiologically binding to podoplanin (PDPN), which is expressed on some tumor cell types, participates in tumor cell?induced platelet aggregation and tumor metastasis. This may propose a possible source of anti?CLEC?2 drugs for both antiplatelet and antimetastasis therapy through rhodocytin modification.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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