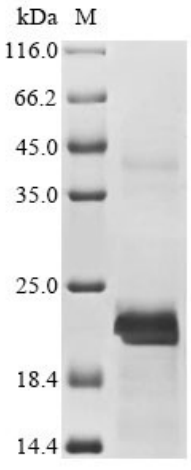
Datasheet

Product Name	Recombinant Calloselasma rhodostoma Rhodocytin subunit beta
Catalog Number	**MBS1413379**
Expression host	*Yeast*
Product Info	N-terminal 6xHis-tagged
Storage Buffer	0.2 μm sterile filtered PBS, pH 7.4, 50% glycerol
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
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 tail of CLEC1B, which promotes the binding of spleen tyrosine kinase (Syk), subsequent activation of PLCgamma2, and platelet activation and aggregation. Binding to GPIbalpha (GP1BA) and alpha2/beta-1 (ITGA2/ITGB1) may also induce aggregation, but this is controversial.
AA sequence	DCPSGWSSYEGHCYKPFNEPKNWADAERFCKLQPKHSHLVSFQSAEEADFVV KLTRPRLKANLVWMGLSNIWHGCNWQWSDGARLNYKDWQEQSECLAFRG VHTEWLNMDCSSTCSFVCKFKA
References	"Aggretin, a heterodimeric C-type lectin from Calloselasma rhodostoma (malayan pit viper), stimulates platelets by binding to alpha 2beta 1 integrin and glycoprotein Ib, activating Syk and phospholipase Cgamma 2, but does not involve the glycoprotein VI/Fc receptor gamma chain collagen receptor." Navdaev A., Clemetson J.M., Polgar J., Kehrel B.E., Glauner M., Magnenat E., Wells T.N.C., Clemetson K.J. J. Biol. Chem. 276:20882-20889(2001)

Certificate of Analysis

Product Name	Recombinant Calloselasma rhodostoma Rhodocytin subunit beta		
Catalog Number	**MBS1413379**		
Expression host	*Yeast*		
Product Info	N-terminal 6xHis-tagged		
Buffer	0.2 μm sterile filtered PBS, pH 7.4, 50% glycerol		
Batch Number	YD04845k1g5		
Nature	Calloselasma rhodostoma Rhodocytin subunit beta-(AA 24-146)-**Q9I840**-Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 ℃, one week from the date of receipt	
	Long term	-20 to -80 ℃, six months from the date of receipt	
Form	Liquid		
Date of detection	2021.03.31		
Test Items	**Specifications**		**Results**
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		0.45 mg/ml
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 16.4 kDa		Observed band size: 22 kDa The reducing (R) protein migrat es as 22 kDa in SDS-PAGE may be due to molecular structure of protein.

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
Aseptic Processing	0.2 μm sterile filtered	
Endotoxin Level	<1.0 EU per 1μg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	