Datasheet

Product Name	Recombinant Rat Plasma kallikrein(Klkb1),partial
Catalog Number	MBS964276
Expression host	*Yeast*
Product Info	N-terminal 6xHis-tagged
Storage Buffer	0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 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	The enzyme cleaves Lys-Arg and Arg-Ser bonds. It activates, in a reciprocal reaction, factor XII after its binding to a negatively charged surface. It also releases bradykinin from HMW kininogen and may also play a role in the renin-angiotensin system by converting prorenin into renin.
AA sequence	IVGGTNSSLGEWPWQVSLQVKLVSQNHMCGGSIIGRQWILTAAHCFDGIPYPD VWRIYGGILNLSEITNKTPFSSIKELIIHQKYKMSEGSYDIALIKLQTPLNYTEFQ KPICLPSKADTNTIYTNCWVTGWGYTKERGETQNILQKATIPLVPNEECQKKY RDYVITKQMICAGYKEGGIDACKGDSGGPLVCKHSGRWQLVGITSWGEGCA RKEQPGVYTKVAEYIDWILEKIQSSKERALETSPA
References	"Hepatic clearance of tissue-type plasminogen activator and plasma kallikrein in experimental liver fibrosis." Nagaoka M.R., Kouyoumdjian M., Borges D.R. Liver Int. 23:476-483(2003)

Certificate of Analysis

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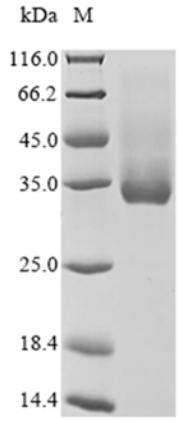
Buffer	0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol		
Batch Number	04091		
Nature	Rat Klkb1-(AA 391-638)-**P14272**-Partial Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 □, one week from the date of receipt	
	Long term	-20 to -80 □, six months from the date of receipt	
Form	Liquid		
Date of detection	2019.03.28		
Test Items	**Specifications**		**Results**
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		1 mg/ml
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 29.0 kDa		Observed band size: 35 kDa The reducing (R) protein migrat es as 35 kDa in SDS-PAGE may be due to glycosylation.

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	