

Certificate of Analysis (CoA)

1. Product Information

Description	KeyTec® BARK1, N-GST; C-Strep II		
CAT.	P1HI0162S/P1HI0162L	Size	10 µg/100 µg
LOT.	ABW01SA	Storage Condition	-80 °C
Validity Period	Up to 1 year from date of receipt, when stored and handled as recommended. And avoid repeated freeze-thaws cycles.		

2. Protein description

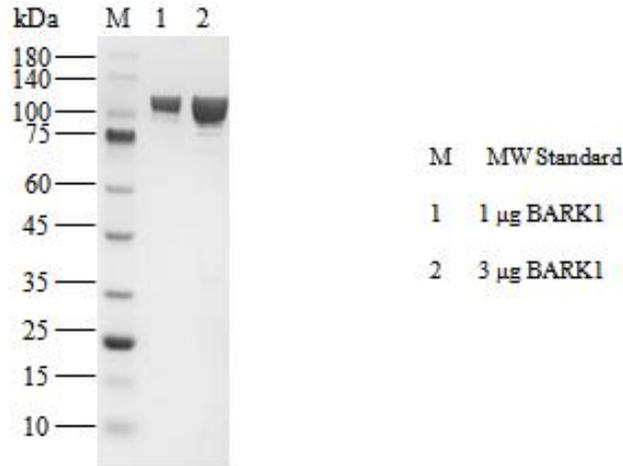
KeyTec® BARK1 recombinant protein with a N-terminal GST tag and a C-terminal Strep II tag, was purified using Strep II affinity purification. This BARK1 recombinant protein batch has high activity in ADP-Glo assay.

3. Physical Characteristics

AA Sequences	Uniprot: P25098, M1-L689(end)
Tag	N-terminal GST tag, C-terminal Strep II tag
Molecular Weight	106.6 kDa
Species	Human
Expression Host	<i>Sf9</i>
Protein Concentration	0.81 mg/mL by OD ₂₈₀
Purity	>95% by SDS-PAGE
Form	Liquid
Formulation	50 M Tris, 150 mM NaCl, 1 mM DTT, 10% Glycerol, pH7.5

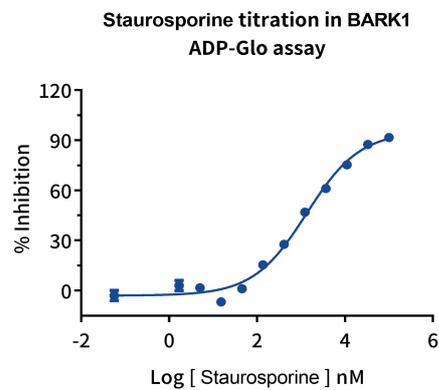
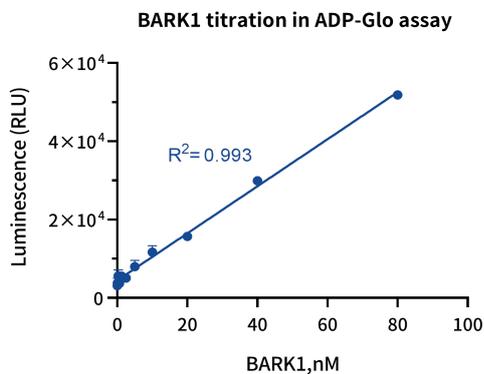
4. Quality Control

A: SDS-PAGE



B: BARK1 titration

This BARK1 recombinant protein was verified using the ADP-Glo assay and showed high enzymatic activity. The enzymatic reaction was performed by incubating BARK1 protein, ATP, and substrate at 25 °C for 60 minutes, followed by the ADP-Glo Kinase Assay measures ADP formed from the enzymatic reaction. The luminescent signal was measured using the Chemiluminescent module of a microplate reader.



5. Primary Sequence

Primary Sequence for BARK1							
Green: GST; Red: Strep II; Black: BARK1							
1	MSPILGYWKI	KGLVQPTRL	LEYLEEKYEE	HLYERDEGDK	WRNKKFELGL	EFNLPYYID	60
61	GDVKLTQSMA	IIRYIADKHN	MLGGCPKERA	EISMLEGAVL	DIRYGVSRIA	YSKDFETLKV	120
121	DFLSKLPEML	KMFEDRLCHK	TYLNGDHVTH	PDFMLYDALD	VVLYMDPMCL	DAFPKLVCFK	180
180	KRIEAIPQID	KYLKSSKYIA	WPLQGWQATF	GGGDHPPKSD	GSMADLEAVL	ADVSYLMAME	240
241	KSKATPAARA	SKKILLPEPS	IRSVMQKYLE	DRGEVTFEKI	FSQKLGyllf	RDFCLNHLEE	300
301	ARPLVEFYEE	IKKYEKLETE	EERVARsREI	FDSYIMKELL	ACSHPFsKSA	TEHVQGHlGK	360
361	KQVPPDLFQP	YIEEICQNLr	GDVFQKFIES	DKFTRFCQWK	NVELNIHLTM	NDFSVHRIIG	420
421	RGGFGEVYGC	RKADTGKMYA	MKCLDKKRIK	MKQGETLALN	ERIMLSLVST	GDCPFIVCMS	480
481	YAFHTPDKLS	FILDLMNGGD	LHYHLSQHGv	FSEADMRFYA	AEIILGLEHM	HNRfVVYRDl	540
541	KPANILLDEH	GHVRISDLGL	ACDFsKKKPH	ASVGTHGYMA	PEVLQKGVAY	DSSADWFSLG	600
601	CMLFKLLRGH	SPFRQHKTkd	KHEIDRMTLT	MAVELPDSFS	PELRSLLLEGL	LQRDVNRRLG	660
661	CLGRGAQEVK	ESPFFRSLDW	QMVFLQKYPP	PLIPPRGEVN	AADAFDIGSF	DEEDTKGIKL	720
721	LDSDQELYRN	FPLTISERWQ	QEVAETVFDt	INAETDRLEA	RKKAKNKQLG	HEEDYALGKD	780
781	CIMHGYSKM	GNPFLTQWQR	RYFYLFpNRL	EWRGEGEAPQ	SLLTMEEIQS	VEETQIKERK	840
841	CLLLKIRGGK	QFILQCSDSP	ELVQWKKELR	DAYREAQQLV	QRVPKMKNKP	RSPVVELSKV	900
901	PLVQRGSANG	LGSWSHPQFE	K				960