Shanghai VKEY Biotechnologies Co., Ltd.
Adds: 3F, Building 2, 898 Halei Road,
Pudong New District, Shanghai, P. R. China
Website: www.vkeybio.com

Certificate of Analysis（CoA）

1. Product Information

Description	**KeyTec® BRSK2, N-GST; C-Strep II**		
CAT.	P1HI0171S/P1HI0171L	**Size**	10 μg/100 μg
LOT	ABW01SA	**Storage Condition**	-80 ℃
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® BRSK2, N-GST; C-Strep II recombinant protein with a GST tag at the N-terminus and a Strep II tag at the C-terminus. The protein was purified using GST affinity purification. This BRSK2 protein batch has high enzymatic activity in the ADP-Glo assay.

3. Physical Characteristics

AA Sequences	Uniprot: Q8IWQ3-2, M1-L674(end)
Tag	N-terminal GST tag, C-terminal Strep II tag
Molecular Weight	103 kDa
Species	Human
Expression Host	*Sf9*
Purity	0.57 mg/mL by OD_{280}
Protein Concentration	>65% by SDS-PAGE
Form	Liquid
Formulation	50 M Tris, 150 mM NaCl, 1 mM DTT, 10% glycerol, pH7.5

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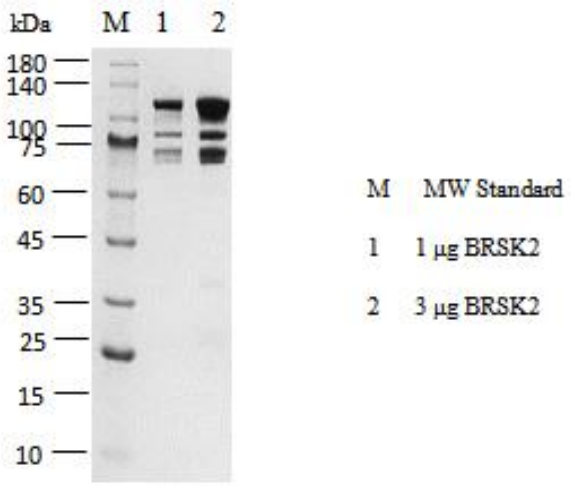
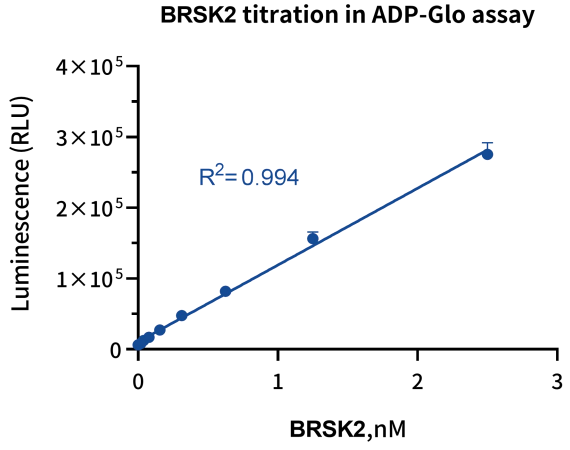
4. Quality Control

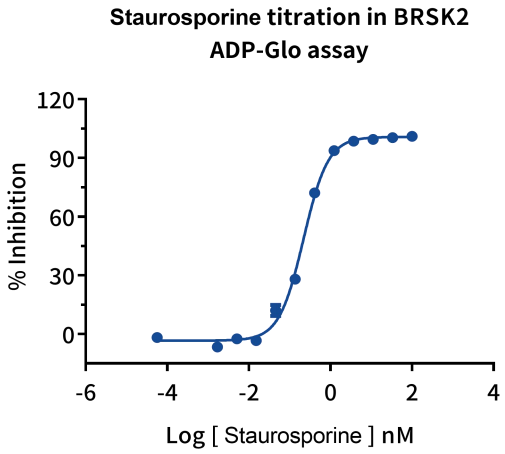
A: SDS-PAGE



B: BRSK2 titration

This BRSK2 recombinant protein was verified using the ADP-Glo assay and showed high enzymatic activity. The enzymatic reaction was performed by incubating BRSK2 protein, ATP, and substrate at 25 ℃ 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.





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5. Primary Sequence

Primary Sequence for BRSK2

Green: GST; Red: 3C protease; Blue: Strep II tag; Black: BRSK2

1	MSPILGYWKI	KGLVQPTRLL	LEYLEEKYEE	HLYERDEGDK	WRNKKFELGL	EFPNLPYYID		60
61	GDVKLTQSMA	IIRYIADKHN	MLGGCPKERA	EISMLEGAVL	DIRYGVSRIA	YSKDFETLKV		120
121	DFLSKLPEML	KMFEDRLCHK	TYLNGDHVTH	PDFMLYDALD	VVLYMDPMCL	DAFPKLVCFK		180
180	KRIEAIPQID	KYLKSSKYIA	WPLQGWQATF	GGGDHPPKSD	GSLEVLFQGP	MTSTGKDGGA		240
241	QHAQYVGPYR	LEKTLGKGQT	GLVKLGVHCV	TCQKVAIKIV	NREKLSESVL	MKVEREIAIL		300
301	KLIEHPHVLK	LHDVYENKKY	LYLVLEHVSG	GELFDYLVKK	GRLTPKEARK	FFRQIISALD		360
361	FCHSHSICHR	DLKPENLLLD	EKNNIRIADF	GMASLQVGDS	LLETSCGSPH	YACPEVIRGE		420
421	KYDGRKADVW	SCGVILFALL	VGALPFDDDN	LRQLLEKVKR	GVFHMPHFIP	PDCQSLLRGM		480
481	IEVDAARRLT	LEHIQKHIWY	IGGKNEPEPE	QPIPRKVQIR	SLPSLEDIDP	DVLDSMHSLG		540
541	CFRDRNKLLQ	DLLSEEENQE	KMIYFLLLDR	KERYPSQEDE	DLPPRNEIDP	PRKRVDSPML		600
601	NRHGKRRPER	KSMEVLSVTD	GGSPVPARRA	IEMAQHGQRS	RSISGASSGL	STSPLSSPRV		660
661	TPHPSPRGSP	LPTPKGTPVH	TPKESPAGTP	NPTPPSSPSV	GGVPWRARLN	SIKNSFLGSP		720
721	RFHRRKLQVP	TPEEMSNLTP	ESSPELAKKS	WFGNFISLEK	EEQIFVVIKD	KPLSSIKADI		780
781	VHAFLSIPSL	SHSVISQTSF	RAEYKATGGP	AVFQKPVKFQ	VDITYTEGGE	AQKENGIYSV		840
841	TFTLLSGPSR	RFKRVVETIQ	AQLLSTHDPP	AAQHLSEPPP	PAPGLSWGAG	LKGQKVATSY		900
901	ESSLGSWSHP	QFEK						960