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® Biotin-LATS1 / MOBKL1A, N-Flag-tag-; C-Avi/N-His**		
CAT.	P1HI0164S/P1HI0164L	**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® Biotin-LATS1 / MOBKL1A, N-Flag-tag-; C-Avi/N-His recombinant protein consists of LATS1 protein with a Flag tag at the N-terminus and an Avi tag at the C-terminus, and MOBKL1A protein with 6xHis tag at the N-terminus. The protein was purified using Flag affinity purification and then biotinylated. This Biotin-LATS1 / MOBKL1A protein batch has high enzymatic activity in the ADP-Glo assay.

3. Physical Characteristics

AA Sequences	Uniprot: LATS1: O95835-1, K589-V1130(end); MOBKL1A: Q7L9L4-1, M1-R216(end)
Tag	LATS1: N-terminal Flag tag, C-terminal Avi tag; MOBKL1A: N-terminal 6x His tag
Molecular Weight	LATS1: 66.5 kDa; MOBKL1A: 26.2 kDa
Species	Human
Expression Host	*Sf9*
Purity	0.36 mg/mL by OD_{280}
Protein Concentration	>95% by SDS-PAGE
Form	Liquid
Formulation	50 M Tris, 150 mM NaCl, 1 mM DTT, 10% glycerol, 0.05% Brij35, pH7.5

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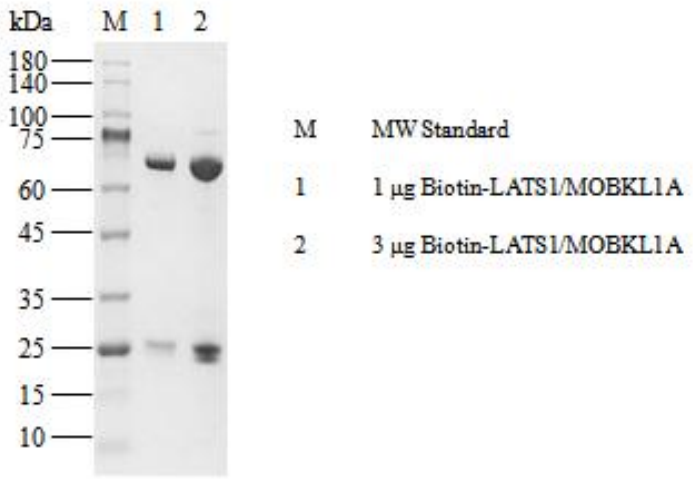
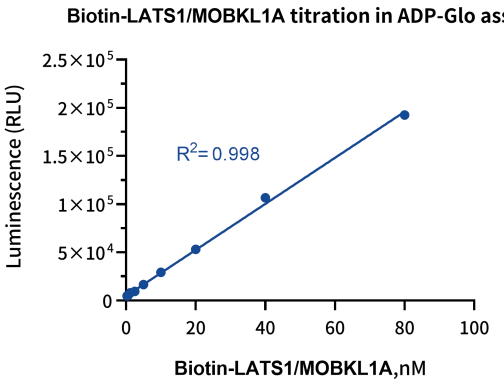
4. Quality Control

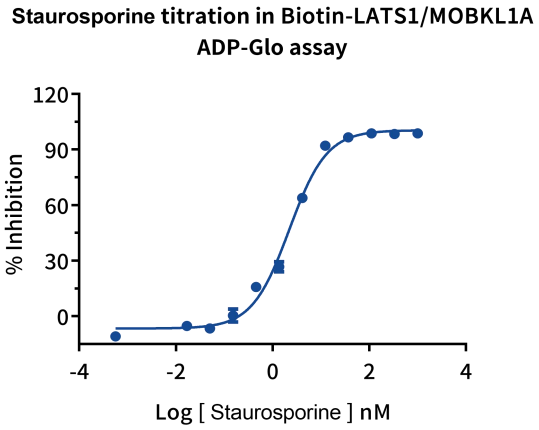
A: SDS-PAGE



B: Biotin-LATS1 / MOBKL1A titration

This Biotin-LATS1 / MOBKL1A recombinant protein was verified using the ADP-Glo assay and showed high enzymatic activity. The enzymatic reaction was performed by incubating Biotin-LATS1 / MOBKL1A 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 Biotin-LATS1/MOBKL1A						
Green: Flag; Red: Avi; Black: LATS1						
1	MGSDYKDDDD	KGSKEDESEK	SYENVDSGDK	EKKQITTSPI	TVRKNKKDEE	RRESRIQSYS	60
61	PQAFKFFMEQ	HVENVLKSHQ	QRLHRKKQLE	NEMMRVGLSQ	DAQDQMRKML	CQKESNYIRL	120
121	KRAKMDKSMF	VKIKTLGIGA	FGEVCLARKV	DTKALYATKT	LRKKDVLLRN	QVAHVKAERD	180
181	ILAEADNEWV	VRLYYSFQDK	DNLYFVMDYI	PGGDMMSLLI	RMGIFPESLA	RFYIAELTCA	240
241	VESVHKMGFI	HRDIKPDNIL	IDRDGHIKLT	DFGLCTGFRW	THDSKYYQSG	DHPRQDSMDF	300
301	SNEWGDPSSC	RCGDRLKPLE	RRAARQHQRC	LAHSLVGTPN	YIAPEVLLRT	GYTQLCDWWS	360
361	VGVILFEMLV	GQPPFLAQTP	LETQMKVINW	QTSLHIPPQA	KLSPEASDLI	IKLCRGPEDR	420
421	LGKNGADEIK	AHPFFKTIDF	SSDLRQQSAS	YIPKITHPTD	TSNFDPVDPD	KLWSDDNEEE	480
481	NVNDTLNGWY	KNGKHPEHAF	YEFTFRRFFD	DNGYPYNYPK	PIEYEYINSQ	GSEQQSDEDD	540
541	QNTGSEIKNR	DLVYVGSGLN	DIFEAQKIEW	HE			600
Green: 6x His; Black: MOBKL1A						
1	MGSHHHHHHM	SFLFGSRSSK	TFKPKKNIPE	GSHQYELLKH	AEATLGSGNL	RMAVMLPEGE	60
61	DLNEWVAVNT	VDFFNQINML	YGTITDFCTE	ESCPVMSAGP	KYEYHWADGT	NIKKPIKCSA	120
121	PKYIDYLMTW	VQDQLDDETL	FPSKIGVPFP	KNFMSVAKTI	LKRLFRVYAH	IYHQHFDPVI	180
181	QLQEEAHLNT	SFKHFIFFVQ	EFNLIDRREL	APLQELIEKL	TSKDR		240