

Certificate of Analysis

1. Product Information

Description	KeyTec® TYK2(JH2), N-His-3C		
CAT.	P1HI0098S/P1HI0098L	Size	10 µg/100 µg
LOT.	ABW01SA	Storage at	-80 °C
Validity Period	Up to 1 year from date of receipt, when stored and handled as recommended. And avoid repeated freeze-thaw cycles.		

2. Product Description

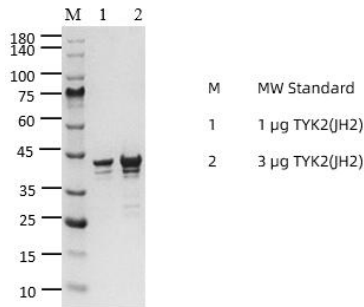
KeyTec® TYK2(JH2), N-His-3C recombinant protein with N-terminal 8×His tag and 3C protease cleavage site was purified by Ni-NTA affinity chromatography and confirmed to be monomeric in solution by SEC-HPLC analysis. The TYK2(JH2) recombinant protein showed high enzymatic activity in FP assay.

3. Physical Characteristics

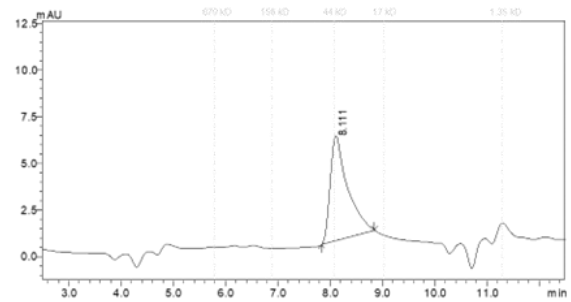
AA Sequences	Uniprot: P29597; G556-V877
Tag	N-terminal 8xHis tag
Molecular Weight	38.2 kDa
Species	Human
Expression Host	<i>Sf9</i>
Protein Concentration	0.29 mg/mL by OD280
Purity	>90% by SDS-PAGE
Form	Liquid
Formulation	50 mM Tris, 150 mM NaCl, 1 mM DTT, 10% glycerol, pH 7.5

4. Quality Control

A: SDS-PAGE

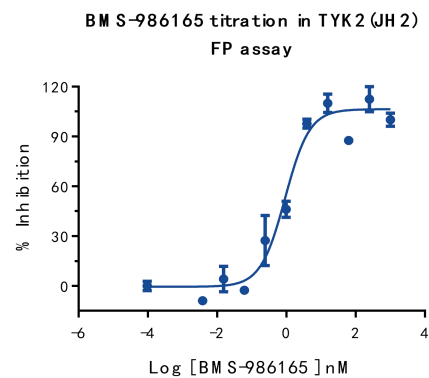
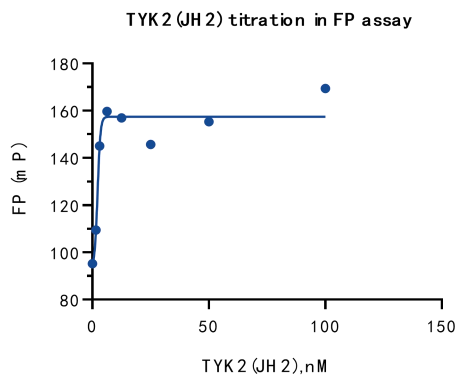


B: SEC-HPLC



C: TYK2(JH2) titration

The TYK2(JH2) activity was detected using FP technology. The reaction was performed by incubating the TYK2(JH2) protein and JH2 probe at 25 °C for 60 min, then reading the signal by Microplate Reader with FP module.



5. Primary Sequence

Primary Sequence for TYK2(JH2)							
Green: 8xHis; Red: 3C; Black: TYK2(JH2)							
1	MGHHHHHHHH	GSLEVLFGP	GETSNLIIMR	GARASPRTLN	LSQLSFHRVD	QKEITQLSHL	60
61	GQGTRTNVYE	GRLRVEGSGD	PEEGKMDDDED	PLVPGRDRGQ	ELRVVLKVLVD	PSHHDIALAF	120
121	YETASLMSQV	SHTHLAFVHG	VCVRGPENIM	VTEYVEHGPL	DVWLRRERGH	VPMAWKMVVA	180
181	QQLASALSYL	ENKNLVHGNV	CGRNILLARL	GLAEGTSPFI	KLSDPGVGLG	ALSREERVER	240
241	IPWLAPECLP	GGANSLSTAM	DKWGFATLL	EICFDGEAPL	QSRSPSEKEH	FYQRQHLPE	300
301	PSCPQLATLT	SQCLTYEPTQ	RPSFRILRD	LTRLQPHNLA	DV		360