

## Certificate of Analysis (CoA)

### 1. Product Information

<b>Description</b>	<b>KeyTec® ERN1, N-GST, C-Flag</b>		
<b>CAT.</b>	P1HI0367S/P1HI0367L	<b>Size</b>	10 µg/100 µg
<b>LOT.</b>	ABW01SA	<b>Storage Condition</b>	-80 °C
<b>Validity Period</b>	Up to 1 year from date of receipt, when stored and handled as recommended. And avoid repeated freeze-thaws cycles.		

### 2. Protein Description

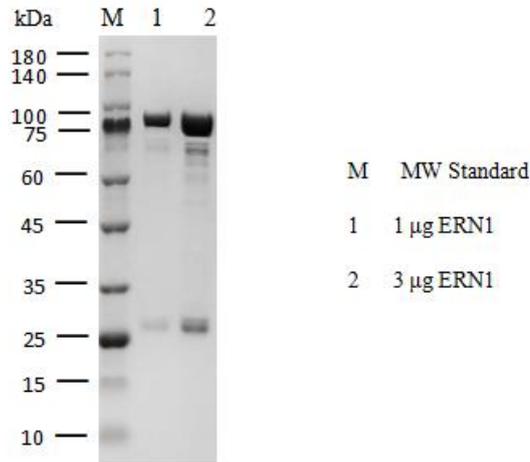
**KeyTec® ERN1, N-GST, C-Flag** is a recombinant protein with a GST tag at the N-terminus and a Flag tag at the C-terminus. The protein was purified using GST affinity chromatography. This ERN1 protein batch has high enzymatic activity in the ADP-Glo assay.

### 3. Physical Characteristics

<b>AA Sequences</b>	Uniprot: O75460-1, M468-L977 (end)
<b>Tag</b>	N-terminal GST tag, C-terminal Flag tag
<b>Molecular Weight</b>	85.7 kDa
<b>Species</b>	Human
<b>Expression Host</b>	Sf9
<b>Protein Concentration</b>	0.74 mg/mL by OD280
<b>Purity</b>	>80% by SDS-PAGE
<b>Form</b>	Liquid
<b>Formulation</b>	50 mM Tris, 150 mM NaCl, 1 mM DTT, 0.05% Brij 35, 10% glycerol, pH7.5

## 4. Quality Control

### A: SDS-PAGE



### B: ERN1 titration

This ERN1 recombinant protein was verified using the ADP-Glo assay and showed high enzymatic activity. The enzymatic reaction was performed by incubating ERN1 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.

