Eurofins DiscoverX Products France

Le bois l'évêque 86600 Celle l'Evescault – FRANCE T +33 (0)5 49 89 30 00 www.eurofinsdiscoveryservices.com



Certificate of Analysis

BIKe, active

(Recombinant enzyme expressed in Sf21 insect cells) Item # 16-044, 16-044-K, 16-044M Parent Lot # D17KP015N

The data presented in this document apply to the parent lot shown above and to all pack sizes derived from subsequent vialling runs of this parent lot. An alphabetical suffix after the parent lot number is used to denote each vialling run.

Product Description: N-terminal 6Histagged, recombinant fragment of human BIKe expressed by baculovirus in Sf21 insect cells. Purified using immobilized metal affinity chromatography.

Purity 99% by SDS-PAGE Coomassie blue staining. MW = 44kDa.

Specific (Parent lot# **Activity** D17KP015N): 20U/mg, where one unit of BIKe activity is defined as 1nmol phosphate incorporated into 250µM AP2tide per minute at 30°C with a final ATP concentration of 100µM.

Formulation: 2.41mg/ml of enzyme in 50mM Tris/HCl pH7.5, 300mM NaCl, 0.1mM EGTA, 0.03% Brij-35, 270mM sucrose, 1mM benzamidine, 0.2mM PMSF, 0.1% 2-mercaptoethanol. solution.

Storage and Stability: On receipt of material store at -70°C. Unopened reagent is stable for a minimum of 1 year from date of shipment when stored at recommended storage temperature. Avoid repeat freeze/thaw cycles. For maximum recovery of product, centrifuge original vial prior to removing the cap.

Handling Recommendations: Rapidly thaw the vial under cold water and immediately place on ice. Aliquot unused material into prechilled micro-centrifuge tubes and immediately snap-freeze the vials in liquid nitrogen prior to re-storage at -70°C.

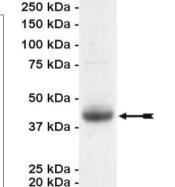
MS Tryptic Fingerprint: Confirmed identity as BIKe.

FOR IN VITRO RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS

Quality Control Testing

Kinase Assay: 3,1-100ng of this lot of enzyme phosphorylated 250µM AP2tide in the assay described on page two. Assay background was subtracted from

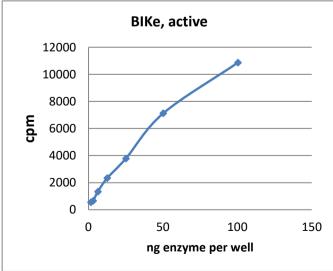
the actual counts to yield the results shown below.



15 kDa -

10 kDa -

SDS-PAGE and Coomassie Stain: Purity was assessed by SDS-PAGE and Coomassie blue staining using 3µg of BIKe, active.



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Kinase Assay Protocol

Stock Solutions:

- 5 x Reaction Buffer: 40mM MOPS/NaOH pH7.0, 1mM EDTA.
- 2. AP2tide: Used at a final assay concentration of 250µM. Prepare a 2.5mM stock and add 2.5µl of stock per assay point.
- 3. Bike, active: Dilute with 20mM MOPS/NaOH pH7.0, 1mM EDTA, 0.01% Brij-35, 5% glycerol, 0.1% 2-mercaptoethanol, 1mg/ml BSA. Use 3.1–100ng per assay point.
- **4.** [γ -³³P]ATP: 2.5 x MgAc/[γ ³³P]ATP cocktail: 25mM MgAc and 0.25mM ATP to which is added [γ ³³P]ATP (specific activity approximately 500 800cpm/pmol as required).

Assay Procedure (96 well plate format):

- 1. Add 5µl of 5 x reaction buffer per assay to wells.
- 2. Add 2.5µl of AP2tide.
- 3. Add 2.5µl (3.1-100ng) BIKe, active.
- 4. Add 5µl of dH₂O.
- 5. Add 10 μ l of diluted [γ -³³P]ATP mixture.
- 6. Incubate for 30 minutes at 30°C.
- 7. Stop the reaction by adding 5µl of 3% phosphoric acid.
- 8. Transfer a 10µl aliquot onto the appropriate area of a **P30 Filtermat.**
- 9. Wash the filtermat three times for 5 minutes with 75mM phosphoric acid.
- 10. Wash the filtermat once for 2 minutes with methanol.
- 11. Transfer the dried filtermat to a sealable plastic bag and add 4ml of scintillation cocktail.
- 12. Read in a scintillation counter. Compare cpm of enzyme samples with cpm of control samples that contain all assay components plus 1µl of 30% phosphoric acid.

Reviewed and approved by site quality representative.

Unless otherwise stated in our catalogue or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.