

6044 Cornerstone Court West, Suite E San Diego, CA 92121

> Tel: 1.858.829.3082 Fax: 1.858.481.8694

Email: info@bpsbioscience.com

Data Sheet

AMPK (A2/B1/G1)

Human, recombinant, C-terminal His-tag

Catalog #: 40024

Lot #: 141008 **Conc.:** 0.1 mg/ml

Formulated in: 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol.

Stability: >6 months at -80 °C. Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 - 0.5%).

References:

- 1. Viollet, B., *Biochem Soc Trans.* 2003;**31**:216-219
- 2. Foretz, M., *Diabetes.* 2005;**54(5)**:1331-1339.

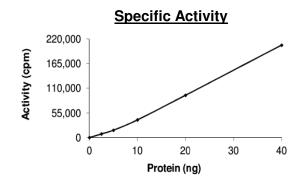
<u>Description</u>: Recombinant full-length human AMPK (combination of A2/B1/G1 subunits) was expressed by baculovirus in Sf9 insect cells using a C-terminal His-tag. The gene accession number for the three subunits (A2/B1/G1) is NM_006252, NM_006253, and NM 002733.

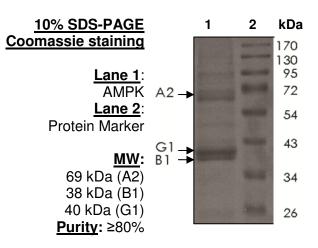
Specific Activity: 280 pmol/min/µg

Assay Buffer: 5 mM MOPS, 2.5 mM β -glycerophosphate, 5 mM MgCl₂, 1 mM EGTA, 0.4 mM EDTA, 0.05 mM DTT, 2 mM ATP. Incubate AMPK A2/B1G1 with 0.2 mg/ml SAMStide peptide substrate, 0.1 mM AMP, and [33P]-ATP at 30 °C for 15 minutes, then spot reaction on phosphocellulose paper, fix in 1% phosphoric acid, and assay with a scintillation counter.

Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance





OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.