

Recombinant Human AMPK1 protein (GST tag)

Catalog Number:PDEH100136



Note: Centrifuge before opening to ensure complete recovery of vial contents.

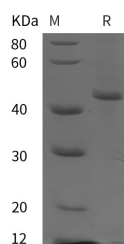
Description

Synonyms	PRKAA1;AMPK1;AMPK subunit alpha-1;PRKAA1;ACACA kinase;PRKAA1
Species	Human
Expression Host	E.coli
Sequence	Lys 421-Gln 574
Accession	Q13131-2
Calculated Molecular Weight	41.8 kDa
Observed molecular weight	45 kDa
Tag	N-GST

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

AMP-activated protein kinase (AMPK) is a heterotrimeric complex consisting of a catalytic alpha subunit and regulatory beta and gamma subunits. Each subunit exists as alternate isoforms (alpha 1, alpha 2, beta 1, beta 2, gamma 1, gamma 2, gamma 3), with all 12 combinations able to form complexes. The catalytic alpha subunit of AMPK is activated allosterically by AMP, and by phosphorylation via the AMPK kinases LKB1 and CaMKK beta. AMPK's role in metabolic regulation has implicated this serine/threonine kinase as a therapeutic target in heart disease, obesity, and diabetes.

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