



Recombinant Human 5'-AMP-activated protein kinase subunit gamma-2 (PRKAG2)

Product Code	CSB-EP887021HU-B
Abbreviation	PRKAG2
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9UGJ0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MLEKLEFEDEAVEDSESGVYMRFMRSHKCYDIVPTSSKLVVFDTTLQVKKAFF ALVANGV RAAPLWESKKQSFVGMILTITDFINILHRYKSPMVQIYELEEHHKIETWRELYLQE TFKPL VNISPDASLFDVYSLIKNKIHLRPLVIDPISGNALYILTHKRILKFLQLFMSDMPKP AFM KQNLDELGIGTYHNIAFIHPDTPIIKALNIFVERRISALPVVDESGKVVDIYSKFDVI NL AAEKTYNNLDITVTQALQHRISQYFEGVVKCNKLEILETIVDRIVRAEVHRLVVVN EADSI VGIISLSDILQALILTPAGAKQKETETE
Source	E.coli
Target Names	PRKAG2
Protein Names	Recommended name: 5'-AMP-activated protein kinase subunit gamma-2 Short name= AMPK gamma2 Short name= AMPK subunit gamma-2Alternative name(s): H91620p
Expression Region	1-328
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length of Isoform B
Target Details	AMP-activated protein kinase (AMPK) is a heterotrimeric protein composed of a catalytic alpha subunit, a noncatalytic beta subunit, and a noncatalytic regulatory gamma subunit. Various forms of each of these subunits exist, encoded by different genes. AMPK is an important energy-sensing enzyme that monitors cellular energy status and functions by inactivating key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This gene is a member of the AMPK gamma subunit family and encodes a protein with four



cystathionine beta-synthase domains. Mutations in this gene have been associated with ventricular pre-excitation (Wolff-Parkinson-White syndrome), progressive conduction system disease and cardiac hypertrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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