Data Sheet (Cat.No.TMPH-02647)

TargetMol

FAM20C Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Kiaa4081;Fam20c;Extracellular serine/threonine protein kinase FAM20C;Dmp4;Dentin matrix protein 4 (DMP-4);Golgi-enriched fraction casein kinase (GEF-CK)
Protein Construction:	88-579 aa
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	Q5MJS3
Molecular Weight:	60.4 kDa (predicted)
AA Sequence:	DFSSDPASNLTSHSLEKLPSAAEPVDHAPRGQEPRSPPPRDPAHRPLLRDPGPRPRVPPPGPSGDGSLLAKL FEHPLYQGAVPPLTEDDVLFNVNSDIRFNPKAAENPDWPHEGAEGAEFLPTGEAAVNLYPNWLKFHIGINRY ELYSRHNPAIDALLRDLGSQKITSVAMKSGGTQLKLIMTFQNYGQALFKPMKQTREQETPPDFFYFSDYERHN AEIAAFHLDRILDFRRVPPVAGRMINMTKEIRDVTRDKKLWRTFFVSPANNICFYGECSYYCSTEHALCGRPDQ IEGSLAAFLPDLSLAKRKTWRNPWRRSYHKRKKAEWEVDPDYCEEVKQTPPYDSGHRILDIMDMTVFDFLMG NMDRHHYETFEKFGNETFIIHLDNGRGFGKYSHDELSILAPLHQCCRIRRSTYLRLQLLAKEEHKLSLLMAESLQ HDKVAPVLYQLHLEALDRRLRIVLQAVRDCVEKDGLSSVVEDDLATEHRASTER

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Golgi serine/threonine protein kinase that phosphorylates secretory pathway proteins within Ser-x-Glu/pSer motifs and plays a key role in biomineralization of bones and teeth. Constitutes the main protein kinase for extracellular proteins, generating the majority of the extracellular phosphoproteome. Mainly phosphorylates proteins within the Ser-x-Glu/pSer motif, but also displays a broader substrate specificity. Phosphorylates casein as well as a number of proteins involved in biomineralization such as AMELX, AMTN, ENAM and SPP1. In addition to its role in biomineralization, also plays a role in lipid homeostasis, wound healing and cell migration and adhesion.

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