



# Recombinant Human Extracellular serine/threonine protein kinase FAM20C (FAM20C)

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| <b>Product Code</b>      | CSB-MP816901HU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Relevance</b>         | 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 |
| <b>Abbreviation</b>      | FAM20C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | 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.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Uniprot No.</b>       | Q8IXL6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen Species</b> | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sequence</b>          | DFSSDPSSNLSSHLEKLPPAAEPAERALRGRDPGALRPHDPAHRPLLRLDPG<br>PRRSESPPGPGGDASLLARLFEHPLYRVAVPPLTEEDVLFNVNSDTRLSPKAA<br>ENPDWPHAGAEGAFLSPGEAAVDSYPNWLKFHIGINRYELYSRHNPAAIEALL<br>HDLSSQRITSVAMKSGGTQLKLIMTFQNYGQALFKPMKQTREQETPPDFFYFS<br>DYERHNAEIAAFHLDRILDFRRVPPVAGRMVNMTEIRDVTRDKKLWRTFFISP<br>ANNICFYGECSYYCSTEHALCGKPDQIEGSLAFLPDLSLAKRKTWRNPWRRS<br>YHKRKKAEWEVDPDYCEEVKQTPPYDSSHRILDVMDMTIFDFLMGNMDRHHY<br>ETFEKFGNETFIIHLDNNGRGFGKYSHDELSILVPLQQCCRIRKSTYLRLQLLAKE<br>EYKLSLLMAESLRGDQVAPVLYQPHLEALDRRLRVVLKAVRDCVERNGLHSVV<br>DDDLDTTEHRAASAR                                                                                                                                             |
| <b>Lead Time</b>         | 3-7 business days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Research Area</b>     | Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Names</b>        | FAM20C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Names</b>     | Dentin matrix protein 4 (DMP-4) (Golgi casein kinase) (Golgi-enriched fraction casein kinase) (GEF-CK) (DMP4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Expression Region</b> | 93-584aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



4°C for up to one week.

**Tag Info**

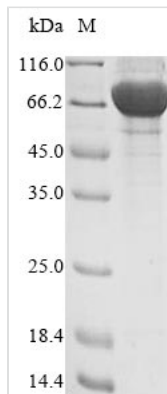
N-terminal 10xHis-tagged and C-terminal Myc-tagged

**Mol. Weight**

61.4 kDa

**Protein Description**

Full Length of Mature Protein

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**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.