

Active Recombinant Human FAM20C protein, His-tagged

Cat. No. FAM20C-260H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FAM20C(Val63-Arg584) fused with His tag at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	63-584 a.a.
Description	Fam20C is a protein kinase dedicated to the phosphorylation of extracellular proteins, including caseins, and is localizes within the Golgi apparatus and also is secreted. It phosphorylates the caseins as well as several other secreted proteins such as AMELX, AMTN, ENAM, SPP1 and the small integrin-binding ligand N-linked glycoproteins SIBLINGs implicated in biomineralization. Consequently, mutations in Fam20C cause an osteosclerotic bone dysplasia in humans known as Raine syndrome and hypophosphatemic rickets. The discovery of the function of Fam20C has solved a 130-year-old mystery of the identity of the kinases that phosphorylate caseins and has shed light on several human disorders of biomineralization. In addition to its role in biomineralization, Fam20C also plays a role in lipid homeostasis, wound healing and cell migration and adhesion.
Predicted N Terminal	Val63 (pro-mature) and Asp93 (mature)
Form	Supplied as a 0.2 µm filtered solution in Tris and NaCl.

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Bio-activity	Measured by its ability to hydrolyze the 5'-phosphate groups from the substrate adenosine-5'-triphosphate (ATP). The orthophosphate product is measured by a Universal Kinase Activity Kit. The specific activity is >20 pmol/min/μg.
Molecular Mass	Predicted Molecular Mass: 60 kDa SDS-PAGE: 70-82 kDa, reducing conditions
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	FAM20C family with sequence similarity 20, member C [Homo sapiens]
Official Symbol	FAM20C
Synonyms	FAM20C; family with sequence similarity 20, member C; dentin matrix protein 4; DKFZp547D065; DMP4; IMAGE:4942737; RNS; DMP-4; DKFZp547C074;
Gene ID	56975
mRNA Refseq	NM_020223
Protein Refseq	NP_064608

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MIM	611061
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UniProt ID	Q8IXL6
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