

Recombinant Human GGCX Protein (M1-F758 end, L573F), C-Flag-tagged

Cat. No. GGCX-06H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human P371(M1-F758 end) (L573F)-Flag was expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	M1-F758 end, L573F
Description	This gene encodes an integral membrane protein of the rough endoplasmic reticulum that carboxylates glutamate residues of vitamin K-dependent proteins to gamma carboxyl glutamate, a modification that is required for their activity. The vitamin K-dependent protein substrates have a propeptide that binds the enzyme, with carbon dioxide, dioxide, and reduced vitamin K acting as co-substrates. Vitamin K-dependent proteins affect a number of physiologic processes including blood coagulation, prevention of vascular calcification, and inflammation. Allelic variants of this gene have been associated with pseudoxanthoma elasticum-like disorder with associated multiple coagulation factor deficiency. Alternative splicing results in multiple transcript variants.
Form	Liquid
Endotoxin	< 0.01 EU/μg of the protein
Purity	90%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 150 mM NaCl, 20 mM HEPES (pH 7.5), 10 mM DTT, 10 mM CaCl ₂ , 0.005% GDN
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	GGCX gamma-glutamyl carboxylase [Homo sapiens (human)]
Official Symbol	GGCX
Synonyms	GGCX; gamma-glutamyl carboxylase; vitamin K-dependent gamma-carboxylase; vitamin K dependent gamma carboxylase; VKCFD1; peptidyl-glutamate 4-carboxylase; FLJ26629;
Gene ID	2677
mRNA Refseq	NM_000821
Protein Refseq	NP_000812
MIM	137167
UniProt ID	P38435

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