

Recombinant Human FPGS Protein, GST-tagged

Cat. No. FPGS-4483H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FPGS partial ORF (NP_004948, 135 a.a. - 232 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes the folylpolyglutamate synthetase enzyme. This enzyme has a central role in establishing and maintaining both cytosolic and mitochondrial folylpolyglutamate concentrations and, therefore, is essential for folate homeostasis and the survival of proliferating cells. This enzyme catalyzes the ATP-dependent addition of glutamate moieties to folate and folate derivatives. While several transcript variants may exist for this gene, the full-length natures of only two have been biologically validated to date. These two variants encode distinct isoforms. [provided by RefSeq]
Molecular Mass	36.52 kDa
AA Sequence	QVRERIRINGQPISPELFTKYFWRLYHRLEETKDGSCVSMPPYFRFLTLMFAHVFLLQ EKVDLAVVEVGIGGAYDCTNIIRKPVVCGVSSLGIDHTSLL
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array

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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

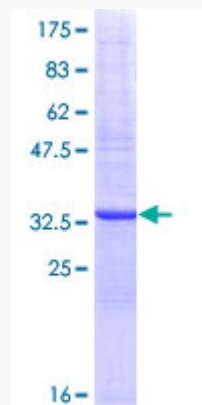
Gene Name	FPGS folypolyglutamate synthase [Homo sapiens]
Official Symbol	FPGS
Synonyms	FPGS; folypolyglutamate synthase; folypolyglutamate synthase, mitochondrial; tetrahydrofolate synthase; folypoly-gamma-glutamate synthetase; tetrahydrofolypolyglutamate synthase;
Gene ID	2356
mRNA Refseq	NM_001018078
Protein Refseq	NP_001018088
MIM	136510
UniProt ID	Q05932

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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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