

Recombinant Human FTCD, His-tagged

Cat. No. FTCD-13023H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FTCD protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.a.
Description	The protein encoded by this gene is a bifunctional enzyme that channels 1-carbon units from formiminoglutamate, a metabolite of the histidine degradation pathway, to the folate pool. Mutations in this gene are associated with glutamate formiminotransferase deficiency. Alternatively spliced transcript variants have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	FTCD formiminotransferase cyclodeaminase [Homo sapiens]
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Official Symbol	FTCD
Synonyms	FTCD; formiminotransferase cyclodeaminase; formimidoyltransferase-cyclodeaminase; formiminotransferase-cyclodeaminase; formimidoyltransferase cyclodeaminase; LCHC1;
Gene ID	10841
mRNA Refseq	NM_006657
Protein Refseq	NP_006648
MIM	606806
UniProt ID	O95954
Chromosome Location	21q22.3
Pathway	Histidine catabolism, organism-specific biosystem; Histidine metabolism, organism-specific biosystem; Histidine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; One Carbon Metabolism, organism-specific biosystem;
Function	folic acid binding; formimidoyltetrahydrofolate cyclodeaminase activity; glutamate formimidoyltransferase activity; lyase activity; transferase activity;