

## Recombinant Human FTCD, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FTCD protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	C-term-350a.a.
<b>Description</b>	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.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 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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<b>Official Symbol</b>	FTCD
<b>Synonyms</b>	FTCD; formiminotransferase cyclodeaminase; formimidoyltransferase-cyclodeaminase; formiminotransferase-cyclodeaminase; formimidoyltransferase cyclodeaminase; LCHC1;
<b>Gene ID</b>	10841
<b>mRNA Refseq</b>	NM_006657
<b>Protein Refseq</b>	NP_006648
<b>MIM</b>	606806
<b>UniProt ID</b>	O95954
<b>Chromosome Location</b>	21q22.3
<b>Pathway</b>	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;
<b>Function</b>	folic acid binding; formimidoyltetrahydrofolate cyclodeaminase activity; glutamate formimidoyltransferase activity; lyase activity; transferase activity;

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