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## Product Data Sheet

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Product Name: FTCD Human  
Cat. No.: GP21635  
Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9 insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Formiminotransferase-cyclodeaminase; FTCD; LCHC1; LC-1.		
Formulation	FTCD is supplied in 16mM HEPES buffer pH-7.6, 240mM sodium chloride, and 20% glycerol.		

### Introduction

Formiminotransferase cyclodeaminase is an enzyme which catalyzes the conversion of formiminoglutarate and tetrahydrofolate into formiminotetrahydrofolate and glutamate. Formiminotransferase cyclodeaminase, a bifunctional enzyme of tetrahydrofolate synthesis, is the target antigen of anti-LC1 (liver cytosol antigen type 1) autoantibodies. Presence of LC1 autoantibodies is a marker for type 2 autoimmune hepatitis (for which anti-LKM 1/cytochrome P450 2D6 autoantibodies are a further marker). Serum LC1 autoantibody concentrations appear to fluctuate in parallel with aminotransferase levels, a particularly intriguing observation that suggests a possible role of LC1 autoreactivity in the pathogenic mechanism leading to hepatocyte injury.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

### Background

Formiminotransferase Cyclodeaminase Human Recombinant (also called liver cytosol type 1) produced in SF9, is a glycosylated, polypeptide chain having a molecular mass of 59,749 Dalton. The FTCD is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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