

Fumarate Hydratase from Human, Recombinant

Cat. No. NATE-1777

Lot. No. (See product label)

Introduction

Description

Fumarase catalyzes the reversible hydration of fumarate to malate. In its mitochondrial form, fumarate is involved in the Krebs Cycle, while the cytosolic form is involved in amino acid metabolism.

Synonyms

EC 4. 2. 1. 2; fumarase; L-malate hydro-lyase; (S)-malate hydro-lyase; 9032-88-6; MCL; LRCC; HLRCC; MCUL1; FH

Product Information

Species

Human

Source

E. coli

Form

Sterile filtered colorless solution.

Formulation

The Fumarase protein solution (1mg/ml) contains 20mM Tris-HCl, pH-8.

EC Number

EC 4. 2. 1. 2

Molecular Weight

50.2 kDa

Purity

>95% by SDS-PAGE analysis

Activity

>25 unit/mg

Unit Definition

1 U is defined as the amount of enzyme that cleaves 1umole of L-Malate to Fumarate per minute at pH 7. 5 at 37°C.

Storage and Shipping Information

Storage

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.