Creative Enzymes®

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.