

Fumarate Hydratase Human Recombinant

Item Number	rAP-1163
Synonyms	MCL, LRCC, HLRCC, MCUL1, FH, Fumarate hydratase, Fumarase.
Description	Fumarase Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 467 amino acids (44-510) and having a molecular mass of 50.2 kDa. Fumarate Hydratase is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P07954
Amino Acid Sequence	MASQNSFRIE YDTFGELKVP NDKYYGAQTV RSTMNFKIGG VTERMPTPVI KAFGILKRAA AEVNQDY-GLD PKIANAIMKA ADEVAEGKLN DHFPLVVWQT GSGTQTNMNV NEVISNRAIE MLGGELGSKI PVHPNDHVNK SQSSNDTFPT AMHIAAAIEV HEVLLPGLQK LHDALDAKSK EFAQIIKIGR THTQDAVPLT LGQEFSGYVQ QVKYAMTRIK AAMPRIYELA AGGTAVGTGL NTRIGFAEKV AAKVAALTGL PFVTAPNK-FE ALAAHDALVE LSGAMNTTAC SLMKIANDIR FLGSGPRSGI GELILPENEP GSSIMPGKVN PTQCEAMTMV AAQVMGNHVA VTVGGSNHGF ELNVFKPMMI KNLVHSARLL GDASVSFTEN CVVGIIQANTE RINKLMNESL MLVTALNPHI GYDKAAKIAK TAHKNGSTLK ETAIELGYLT AEQFDEWVKP KDMLGPK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	The Fumarase protein solution (1mg/ml) contains 20mM Tris-HCl, pH-8. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity is > 25 unit/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Malate to Fumarate per minute at pH 7.5 at 37°C.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**