



Recombinant Protein Technical Manual

Recombinant Human Fumarase/FH Protein

RPES4400

Product Data:

Product SKU: RPES4400

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P07954

Protein Information:

Molecular Mass: 50.2 kDa

AP Molecular Mass: 45 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Fumarate Hydratase Mitochondrial; Fumarase; FH;FMRD;HLRCC;LRCC;MCL;MCUL1

Immunogen Information:

Sequence: Ala45-Lys510

Background:

Fumarase is an enzyme that catalyze the reversible hydration/dehydration of fumarate to S-malate and is involved in the tricarboxylic acid or Krebs cycle. Fumarase exists in both form, cytosolic form and N-terminal extend mitochondrial form. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension is the same form as in the cytoplasm. Fumarase is thought to act as a tumor suppressor, which deficiency can lead to progressive encephalopathy, cerebral atrophy and development delay.