

Recombinant Human ENO3, GST-tagged

Cat. No. ENO3-12453H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ENO3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 94-434a.a.

Description This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme is found in skeletal muscle cells in the adult where it may play a role in muscle development and regeneration. A switch from alpha enolase to beta enolase occurs in muscle tissue during development in rodents. Mutations in this gene have been associated with glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been described.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name ENO3 enolase 3 (beta, muscle) [Homo sapiens]

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Official Symbol	ENO3
Synonyms	ENO3; enolase 3 (beta, muscle); enolase 3, (beta, muscle); beta-enolase; muscle-specific enolase; skeletal muscle enolase; 2-phospho-D-glycerate hydrolyase; MSE; GSD13;
Gene ID	2027
mRNA Refseq	NM_001193503
Protein Refseq	NP_001180432
MIM	131370
UniProt ID	P13929
Chromosome Location	17pter-p11
Pathway	Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem;
Function	lyase activity; magnesium ion binding; phosphopyruvate hydratase activity; protein heterodimerization activity; protein homodimerization activity;

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