

Recombinant Human ASNS, GST-tagged

Cat. No. ASNS-9938H Lot. No. (See product label)

SPECIFICATION

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

Species Human

Source E.coli

ProteinLength 247-561 a.a.

Description The protein encoded by this gene is involved in the synthesis of asparagine. This gene complements a mutation in the temperature-sensitive hamster mutant ts11, which blocks progression through the G1 phase of the cell cycle at nonpermissive temperature. Alternatively spliced transcript variants have been described for this gene.

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 ASNS asparagine synthetase (glutamine-hydrolyzing) [Homo sapiens]

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Official Symbol	ASNS
Synonyms	ASNS; asparagine synthetase (glutamine-hydrolyzing); asparagine synthetase; asparagine synthetase [glutamine-hydrolyzing]; TS11 cell cycle control protein; glutamine-dependent asparagine synthetase; TS11;
Gene ID	440
mRNA Refseq	NM_001178075
Protein Refseq	NP_001171546
MIM	108370
UniProt ID	P08243
Chromosome Location	7q21-q31
Pathway	Activation of Genes by ATF4, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; asparagine synthase (glutamine-hydrolyzing) activity; asparagine synthase (glutamine-hydrolyzing) activity; cofactor binding; ligase activity; nucleotide binding; protein homodimerization activity;

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