

## Recombinant Human ASNS 293 Cell Lysate

**Cat. No.** ASNS-8650HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for asparagine synthetase (ASNS), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [ASNS asparagine synthetase \(glutamine-hydrolyzing\) \[ Homo sapiens \]](#)

**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\\_001673](#)

**Protein Refseq** [NP\\_001664](#)

**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;

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**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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