

Datasheet for ABIN7596323

## Asparagine Synthetase Protein (ASNS) (AA 1-561) (His tag)



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### Overview

Quantity:	250 µg
Target:	Asparagine Synthetase (ASNS)
Protein Characteristics:	AA 1-561
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Asparagine Synthetase protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

### Product Details

Sequence:	<p>             MCGIWALFGS DDCLSVQCLS AMKIAHRGPD AFRFENVNGY TNCCFGFHRL AVVDPLFGMQ              PIRVRKYPYL WLCYNGEIYN HKALQQRFEF EYQTNVDGEI ILHLYDKGGI EKTICMLDGV              FAFILLDTAN KKVFLGRDTY GVRPLFKAMT EDGFLAVCSE AKGLVSLKHS TTPFLKVEPF              LPGHYEVLDL KPNGKVASVE MVKYHHCTDE PLHAIYDSVE KLFPGFDET VKNNLRILFD              NAIKKRLMTD RRIGCLLSGG LDSSLVAASL LKQLKEAQVQ YPLQTFAIGM EDSPDLLAAR              KVANYIGSEH HEVLFNSEEG IQALDEVIFS LETYDITTVR ASVGMYLISK YIRKNTDSV              IFSGEGSDEL TQGYIYFHKA PSPEKAEES ERLKELYLF DVLRADRTTA AHGLELRVPF              LDHRFSSYYL SLPPDMRIPK NGIEKHLLRE TFEDCNLLPK EILWRPKEAF SDGITSVKNS              WFKILQDYVE HQVDDEMMSA SQKFPFNTPT KTEGYFYRQ IFRHYPGRA DWLTHYWMPK              WINATDPSAR TLTHYKSAK A           </p>
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1 µg of protein (determined by LAL method)

## Target Details

Target:	Asparagine Synthetase (ASNS)
Alternative Name:	Asparagine Synthetase/ASNS ( <a href="#">ASNS Products</a> )
Background:	ASNS, also known as Asparagine synthetase, is a one of cytoplasmic enzyme that generates asparagine from aspartate. It mainly distributes in mammalian organs, but basal expression is low in tissues other than the exocrine pancreas. This protein plays a role of cell growth, and its mRNA content is linked to changes in the cell cycle. Its mRNA is upregulated in response to the asparagine depletion, some of the toxic effects of the medication on normal cell activity. Above average presence of asparagine synthetase in certain leukemia strains has been linked to be a significant contributing factor of chemotherapy resistance, particularly to the chemotherapy drug, L-asparaginase. Also, it functions as potential biomarker for ovarian cancer, potential role in solid tumor metastasis. Recombinant mouse ASNS, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	65.1 kDa (567aa)
NCBI Accession:	<a href="#">NP_036185</a>
Pathways:	<a href="#">ER-Nucleus Signaling</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.