Recombinant human ASRGL1 protein

Catalog Number: ATGP2889

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-308aa

UniProt No.
Q7L266

NCBI Accession No.
NP_001077395

Alternative Names
Isoaspartyl peptidase/L-asparaginase, ALP, ALP1, CRASH

PRODUCT SPECIFICATION

Molecular Weight
34.4 kDa (331aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol , 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Isoaspartyl peptidase/L-asparaginase, also known as ASRGL1, is a 308 amino acid protein belonging to the Ntn-hydrolase family. ASRGL1 has been identified as an autoantigenic protein that is present in the mid-piece of sperm after obstruction of the male reproductive tract. It is expressed highly in testis, but is also expressed in brain, kidney and gastrointestinal tissues. High levels of ASRGL1 have also been identified in ovarian, uterine and mammary tumors in comparison with normal tissues of the same origin. Recombinant human ASRGL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

chromatography techniques.

Amino acid Sequence

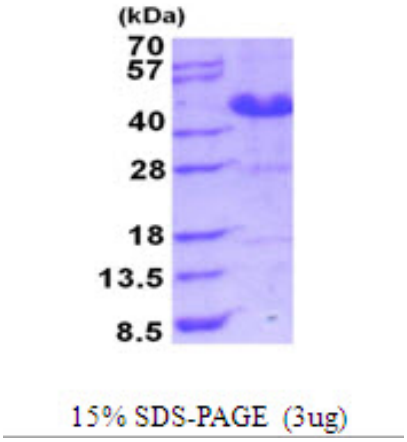
MGSSHHHHHH SSGLVPRGSH MGSMNPIVVV HGGGAGPISK DRKERVHQGM VRAATVGYGI LREGGSAVDA VEGAVVALED DPEFNAGCGS VLNTNGEVEM DASIMDGKDL SAGAVSAVQC IANPIKLARL VMEKTPHCFL TDQGAAQFAA AMGVPEIPGE KLVTERNKKR LEKEKHEKGA QKTDCQKNLG TVGAVALDCK GNVAYATSTG GIVNKMVGRV GDSPCLGAGG YADNDIGAVS TTGHGESILK VNLARLTLFH IEQGKTVEEA ADLSLGYMKS RVKGLGGLIV VSKTGDWVAK WTSTSMPWAA AKDGKLHFGI DPDDTTITDL P

General References

Herr J C., et al. (1999) Biol Reprod. 61: 428-435.
Bush L A., et al. (2002) Mol Reprod Dev. 62: 233-247.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.