Recombinant human Serpin A12/Vaspin protein

Catalog Number: VAS0701

PRODUCT INFORMATION

Expression system
E.coli

Domain
21-414aa

UniProt No.
Q8IW75

NCBI Accession No.
NP_776249.1

Alternative Names
Serine (or cysteine) proteinase inhibitor clade A (alpha-1 antiproteinase antitrypsin) member 12, SERPINA12, serpin peptidase inhibitor clade A member 12, OL-64, Visceral adipose tissue-derived serine protease inhibitor, Serpin A12 precursor, OL64 OL 64, ENSG00000165953, Serine (or cysteine) proteinase inhibitor clade A (alpha 1 antiproteinase antitrypsin) member 12 antibody

PRODUCT SPECIFICATION

Molecular Weight
47.4 kDa (415aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2mM PMSF, 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

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
Vaspin (visceral adipose-specific SERPIN), a newly identified adipokine, which is a member of serine protease

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inhibitor family. Vaspin is also a unique insulin sensitizing adipocytokine in obesity. A recent publication indicates that induction of human vaspin mRNA expression in adipose tissue is regulated in a fat depot-specific manner and could be associated with parameters of obesity, insulin resistance, and glucose metabolism. Recombinant human Vaspin fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

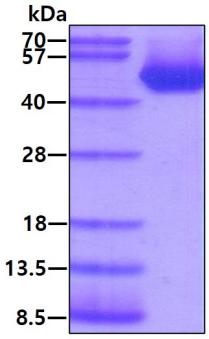
<MGSSHHHHHH SSGLVPRGSH M>LKPSFSPRN YKALSEVQGW KQRMAAKELA RQNMDLGFKL LKKLAFYNPG RNIFLSPLSI STAFSMLCLG AQDSTLDEIK QGFNFRKMPE KDLHEGFHYI IHELTQKTQD LKLSIGNTLF IDQRLQPQRK FLEDAKNFYS AETILTNFQN LEMAQKQIND FISQKTHGKI NNLIENIDPG TVMLLANYIF FRARWKHEFD PNVTKEEDFF LEKNSSVKVP MMFRSGIYQV GYDDKLSCTI LEIPYQKNIT AIFILPDEGK LKHLEKGLQV DTFSRWKTLL SRRVVDVSVP RLHMTGTFDL KKTLSYIGVS KIFEEHGDLT KIAPHRSLKV GEAVHKAELK MDERGTEGAA GTGAQTLPME TPLVVKIDKP YLLLIYSEKI PSVLFLGKIV NPIGK

General References

Hida K., et al. (2005) PNAS. 102(30):10610-5.
Kloting N., et al. (2006) Biochem Biophys Res Commun. 339(1):430-6

DATA

SDS-PAGE



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