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Datasheet for ABIN1097502

**SERPINA12 Protein (AA 21-414) (GST tag)**

## Overview

Quantity:	50 µg
Target:	SERPINA12
Protein Characteristics:	AA 21-414
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SERPINA12 protein is labelled with GST tag.

## Product Details

Purpose:	Recombinant Human Serpin A12/Vaspin (N-GST)
Sequence:	<p>MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPPYID</p> <p>GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV</p> <p>DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK</p> <p>KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSLKPS FSPRNYKALS</p> <p>EVQGWKQRMA AKELARQNMD LGFKLLKKLA FYNPGRNIFL SPLSISTAFS MLCLGAQDST</p> <p>LDEIKQGFNF RKMPEKDLHE GFHYIIHELT QKTQDLKLSI GNTLFIDQRL QPQRKFLEDA</p> <p>KNFYSAETIL TNFQNLEMAQ KQINDFISQK THGKINNIE NIDPGTVMLL ANYIFFRARW</p> <p>KHEFDPNVTK EEDFFLEKNS SVKVPMMFRS GIYQVGYDDK LSCTILEIPY QKNITAIFIL</p> <p>PDEGKLKHLE KGLQVDTFSR WKTLLSRRVV DVSVPRLHMT GTFDLKKTLS YIGVSKIFEE</p> <p>HGDLTKIAPH RSLKVGEAVH KAEKMDERG TEGAAGTGAQ TLPMETPLVV KIDKPYLLLI</p> <p>YSEKIPSVLF LGKIVNPIGK</p>
Characteristics:	Recombinant Human Serpin A12 is produced by our E. coli expression system. The target

## Product Details

	protein is expressed with sequence (Leu21-Lys414) of Human Serpin A12 fused with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	SERPINA12
Alternative Name:	Serpin A12 ( <a href="#">SERPINA12 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>Vaspin (Visceral Adipose-Specific SERPIN) is a newly described adipokine. Vaspin has three beta-sheets, nine alpha-helices, and one central loop, the structure is part of the set of distinctive features that are descriptive of Serpin family members. Vaspin is also a unique insulin sensitizing adipocytokine in obesity. A recent publication indicates that Vaspin mRNA expression in visceral fat is positively correlated with BMI and percent of body fat. and could be associated with parameters of obesity, insulin resistance, and glucose metabolism. These findings suggest a potential clinical use for Vaspin in ameliorating certain aberrations seen in the obesity metabolic syndrome.</p> <p>Alternative Names: Serpin A12, OL-64, Visceral Adipose Tissue-Derived Serine Protease Inhibitor, Vaspin, Visceral Adipose-Specific Serpin, SERPINA12</p>
Molecular Weight:	71.4 kDa
UniProt:	<a href="#">Q8IW75</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>

## Handling

Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM TrisHCl, 160 mM NaCl, 0.2 mM PMSF, 1 mM DTT, 10 % Glycerine, pH 7.2 .
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months