

Overview

Synonyms	Serpin A12, OL-64, Visceral adipose tissue-derived serine protease inhibitor
Description	<p>Vaspin is a cytokine originally identified in visceral adipose tissue of Otsuka Long-Evans Tokushima fatty rats, and the name “Vaspin” is short for visceral adipose tissue-derived serine protease inhibitor. Besides the visceral adipose, Vaspin is also expressed in the skin, hypothalamus, pancreatic islets and stomach, and is shown to exert an anti-inflammatory role by inhibiting several proinflammatory adipokines such as leptin, resistin, and Tumor Necrosis Factor-α. Vaspin also stimulates adiponectin expression and improves insulin sensitivity in mice. Vaspin expression has been shown to decrease with worsening of diabetes and body weight loss. Accordingly, administration of recombinant human Vaspin improved glucose tolerance in diet regulated mice suggesting it as a potential target for obese-related diseases.</p> <p>Recombinant human Vaspin (rhVaspin) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 394 amino acids. rhVaspin has a molecular mass of 45.1kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
Accession No	Q8IW75
Species	Human
Source	<i>E. coli</i>
Biological Activity	Bioassay data are not available.
Sequence	<p>LKPSFSRPNY KALSEVQGWK QRMAAKELAR QNMDLGFKLL KKLAFYNPGR NIFLSPLSIS TAFSMLCLGA QDSTLDEIKQ GFNFRKMPEK DLHEGFHYII HELTQKTQDL KLSIGNTLFI DQRLQPQRKF LEDAKNFYSA ETILTQNFQNL EMAQKQINDF ISQKTHGKIN NLIENIDPGT VMLLANYIFF RARWKHEFDP NVTKEEDFFL EKNSSVKVPM MFRSGIYQVG YDDKLSCTIL EIPYQKNITA IFILPDEGKL KHLEKGLQVD TFSRWKTLLS RRVVDVSVPR LHMTGTFDLK KTLSYIGVSK IFEEHGDLTk IAPHRSLKVG EAVHKAELKM DERGTEGAAG TGAQTLPMET PLVVKIDKPY LLLIYSEKIP SVLFLGKIVN PIGK</p>

Properties

Measured Molecular Weight	45.1 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μ g/mL.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant human Vaspin (rhVaspin) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhVaspin remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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