
Product Data Sheet

Product Name: Adipsin Human, Sf9

Cat. No.: GP22680

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Complement Factor D (Adipsin); Properdin Factor D; DComponent Of Complement (Adipsin); C3 Convertase Activator; EC 3.4.21.46; ADIPSIN; PFD; AND; DF; Complement Factor D Preproprotein; Complement Factor D; EC 3.4.21; Complement factor D.		
Amino Acid Sequence	PPRGRILGGR EAEAHARPYMASVQLNGAHL CGGVLVAEQW VLSAAHCLED AADGKVQVLL GAHSLSQPEP SKRLYDVLRA VPHPDSQPDT IDHDL LLLQLSEKATLGP AV RPLPWQRVDR DVAPGTLCDV AGWGIVNHAG RRPDSLQHV L LPVLD R ATCN R RTHHDG AITERLMCAESNRRD SCKGDSGG PLVCGGVLEGVVTSGSRVCG NRKKPGIYTR VASYAAWIDS VLAVEHHHHH H.		
Formulation	Adipsin protein solution (1mg/ml) contains phosphate buffered saline (pH7.4).		

Introduction

Complement Factor D (Adipsin), which belongs to the trypsin family of peptidases, is involved in the alternative complement pathway of the complement system where it cleaves factor B. In the alternative complement pathway, Adipsin is best known for its role in humoral suppression of infectious agents. In addition, Adipsin is a serine protease which is secreted by adipocytes into the bloodstream. Ultimately, Adipsin has a high level of expression in fat, proposing a role for adipose tissue in immune system biology.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Adipsin produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 241 amino acids (21-253a.a.) and having a molecular mass of 26.01kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). Adipsin is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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