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## Product Data Sheet

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Product Name: CAPZA2 Human  
 Cat. No.: GP22971  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Capping Protein (Actin Filament) Muscle Z-Line; Alpha 2; F-Actin Capping Protein Alpha-2 Subunit; CapZ Alpha-2; CAPPA; CAPZ2; F-Actin-Capping Protein Subunit Alpha-2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMADLEEQ LSDEEKVRIA AKFIIHAPPG EFNEVFNDVR LLLNNDNLLR EGAAHAFAYQ NLDQFTPVKI EGYEDQVLIT EHGDLGNGKF LDPKNRICFK FDHLRKEATD PRPCEVENAV ESWRTSVETA LRAYVKEHYP NGVCTVYGKK IDGQQTIAC IESHQFQAKN FWNGRWRSEW KFTITPSTTQ VVGILKIQVH YYEDGNVQLV SHKDIQDSL T VSNEVQTAK E FIKIVEAAEN EYQTAISENY QTMSDTTFKA LRRQLPVTRT KIDWNKILSY KIGKEMQNA.		
Formulation	CAPZA2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol, and 0.4M UREA.		

### Introduction

Capping Protein (Actin Filament) Muscle Z-Line, Alpha 2 also known as CAPZA2 belongs the F-actin capping protein alpha subunit family. It is the alpha subunit of the barbed-end actin binding protein Cap Z. By capping the barbed end of actin filaments, Cap Z regulates the growth of the actin filaments at the barbed end. Among the diseases associated with CAPZA2 are endocarditis, and cervicitis.

### 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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CAPZA2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 309 amino acids (1-286 a.a) and having a molecular mass of 35.3kDa. CAPZA2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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