

ZYX Protein, Human (HEK293, His)

Cat. No.:	HY-P71673
Synonyms:	ZYX; Zyxin; Zyxin-2
Species:	Human
Source:	HEK293
Accession:	Q15942 (A2-T572)
Gene ID:	7791
Molecular Weight:	Approximately 65.1 kDa

PROPERTIES

AA Sequence

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A A P R P S P A I S   V S V S A P A F Y A   P Q K K F G P V V A   P K P K V N P F R P
G D S E P P P A P G   A Q R A Q M G R V G   E I P P P P P E D F   P L P P P P L A G D
G D D A E G A L G G   A F P P P P P P I E   E S F P P A P L E E   E I F P S P P P P P
E E E G G P E A P I   P P P P Q P R E K V   S S I D L E I D S L   S S L L D D M T K N
D P F K A R V S S G   Y V P P P V A T P F   S S K S S T K P A A   G G T A P L P P W K
S P S S S Q P L P Q   V P A P A Q S Q T Q   F H V Q P Q P Q P K   P Q V Q L H V Q S Q
T Q P V S L A N T Q   P R G P P A S S P A   P A P K F S P V T P   K F T P V A S K F S
P G A P G G S G S Q   P N Q K L G H P E A   L S A G T G S P Q P   P S F T Y A Q Q R E
K P R V Q E K Q H P   V P P P A Q N Q N Q   V R S P G A P G P L   T L K E V E E L E Q
L T Q Q L M Q D M E   H P Q R Q N V A V N   E L C G R C H Q P L   A R A Q P A V R A L
G Q L F H I A C F T   C H Q C A Q Q L Q G   Q Q F Y S L E G A P   Y C E G C Y T D T L
E K C N T C G E P I   T D R M L R A T G K   A Y H P H C F T C V   V C A R P L E G T S
F I V D Q A N R P H   C V P D Y H K Q Y A   P R C S V C S E P I   M P E P G R D E T V
R V V A L D K N F H   M K C Y K C E D C G   K P L S I E A D D N   G C F P L D G H V L
C R K C H T A R A Q   T
  
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Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The ZYX protein functions as an adhesion plaque protein with a pivotal role in binding alpha-actinin and the CRP protein. Its significance lies in targeting TES and ENA/VASP family members to focal adhesions and contributing to the formation of actin-rich structures. ZYX may be a crucial component of a signal transduction pathway that orchestrates adhesion-stimulated changes in gene expression. Notably, it interacts with the HPV type 6 protein E6, while showing limited interaction with E6 proteins from HPV types 11, 16, or 18. The Pro-rich regions of ZYX engage in interactions with the EVH1 domains of ENAH, EVL, and VASP, and it also interacts with the first LIM domain of TES, NEBL (isoform 2), and SYNPO2, underscoring its diverse molecular associations and its role in mediating cellular signaling events.

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

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