ACTB Protein, Human (His)

Cat. No.:	HY-P7453
Synonyms:	rHuACTB, His; Actin cytoplasmic 1; ACTB
Species:	Human
Source:	E. coli
Accession:	P60709 (D2-F375)
Gene ID:	60
Molecular Weight:	Approximately 42.8 kDa

PROPERTIES

AA Sequence	D D D I A A L V V D N G S G M C K A G F A G D D A P R A V F P S I V G R P R H Q G V M V G M G Q K D S Y V G D E A Q S K R G I L T L K Y P I E H G I V T N W D D M E K I W H H T F Y N E L R V A P E E H P V L L T E A P L N P K A N R E K M T Q I M F E T F N T P A M Y V A I Q A V L S L Y A S G R T T G I V M D S G D G V T H T V P I Y E G Y A L P H A I L R L D L A G R D L T D Y L M K I L T E R G Y S F T T T A E R E I V R D I K E K L C Y V A L D F E Q E M A T A A S S S S L E K S Y E L P D G Q V I T I G N E R F R C P E A L F Q P S F L G M E S C G I H E T T F N S I M K C D V D I R K D L Y A N T V L S G G T T M Y P G I A D R M Q K E I T A L A P S T M K I K I I A P P E R K Y S V W I G G S I L A S L S T F Q Q M W I S K Q E Y D E S G P S I V H R K C F H H H H H H
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 10 mM Tris-HCl, 0.1% Triton X-100, 2 mM DTT, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	ACTB encodes b-actin, an abundant cytoskeletal housekeeping protein. ACTB is the only gene common to all four deletions, leading us to hypothesize that ACTB haploinsufficiency leads to a distinct clinical syndrome[1].

REFERENCES

[1]. Sara Cuvertino, et al. ACTB Loss-of-Function Mutations Result in a Pleiotropic Developmental Disorder. Am J Hum Genet. 2017 Dec 7;101(6):1021-1033.

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

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