

Product information

ACTN1, 1-249aa

Human, His-tagged, Recombinant, *E.coli*

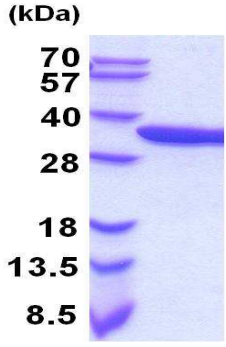
Cat. No. IBATGP3162

Full name: Alpha-actinin-1 isoform a

NCBI Accession No.: NP_001123476

Synonyms: BDPLT15

Description: ACTN1 also known as alpha-actinin-1 isoform a. ACTN1 functions as an actin-binding-protein. ACTN1 determines the motility of keratinocytes by regulating the organization of the actin cytoskeleton, focal adhesion, and hemidesmosome proteins complexes, thereby modulating cell speed, lamellipodial dynamics, and directed migration. Recombinant human ACTN1, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p>Form: Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol</p> <p>Molecular Weight: 31.4kDa (274aa) confirmed by MALDI-TOF</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 1mg/ml (determined by Absorbance at 280nm)</p>	 <p>(kDa)</p> <p>70</p> <p>57</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>8.5</p> <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHH SSGLVPRGSH MGSEFMDHYD SQQTNDYMQP EEDWORDLLL DPAWEKQQRK TFTAWCNHL RKAGTQIENI EEDFRDGLKL MLLLEVISGE RLAKPERGKM RVHKISNVNK ALDFIASKGV KLVSIGAEI VDGNVKMTLG MIWTILRFA IQDISVEETS AKEGLLLWCQ RKTAPYKNVN IQNFHISWKD GLGFCAL IHR HRPELIDYGK LRKDDPLTNL NTAFDVAEKY LDIPKMLDAE DIVGTARPDE KAIMTYVSSF YHAF</p>	

General references:

Hamill KJ., et al. (2014) *Journal of Invest Dermatology*. 135(4):1043-52

Kunishima S., et al. (2013) *Am J Hum Genet*. 92(3):431-8

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.