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**Product Data Sheet**


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Product Name: ACTR3 Human  
 Cat. No.: GP22674  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ARP3 Actin-Related Protein 3 Homolog (Yeast); ARP3; Actin-Like Protein 3; ARP3 (Actin-Related Protein 3; Yeast) Homolog; Actin-Related Protein 3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGRLPA CVVDCGTGYT KLG YAGNTEP QFIIPSCIAI KESAKVGDQAQRRVMKGVDD LDDFFIGDEAI EKPTYATKWP IRHGIVEDWD LMERFMEQVI FKYLRAEPED HYFLLTEPPLNTPENREYTA EIMFESFNVP GLYIAVQAVL ALAASWTSRQVGERTLTGTV IDSGDGVTHV IPVAEGYVIG SCIKHIPIAG RDITYFIQQLLRDREVGIPP EQSLETAKAV KERYSYVCPD LVKEFNKYDT DGSKWIKQYT GINAISKKEF SIDVGYERFLGPEIFFHPEF ANPDFTQPIS EVVDEVIQNC PIDVRRPLYK NIVLSGGSTM FRDFGRRLQRDLKRTVDARL KLSEELSGGR LKPKPIDVQV ITHHMQR YAV WFGGSMLASTPEFYQVCHTK KDYEEIGPSI CRHNPVFGVM S.		
Formulation	ACTR3 protein solution (0.25 mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

**Introduction**

ARP3 Actin-Related Protein 3, also known as ACTR3, belongs to the actin family. The specific function of ACTR3 has not been established yet. On the other hand, ACTR3 is identified as being a major constituent of the ARP2/3 complex. In addition, this complex is located at the cell surface and vital to cell shape & motility through lamellipodial actin assembly and protrusion. 3 transcript variants encoding 2 different isoforms have been discovered for ACTR3.

**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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ACTR3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 441 amino acids (1-418 a.a) and having a molecular mass of 49.8kDa. ACTR3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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