

## ARP3/ACTR3 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P76733
Synonyms:	Actin-related protein 3; Actin-like protein 3
Species:	Human
Source:	Sf9 insect cells
Accession:	P61158 (A2-S418)
Gene ID:	10096
Molecular Weight:	Approximately 75.1 kDa.

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol, 3 mM DTT. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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	SWSAP1 is an ATPase preferentially stimulated by single-stranded DNA, playing a crucial role in homologous recombination repair (HRR). This protein exhibits DNA-binding activity independent of its ATPase function. It forms a functional complex with ZSWIM7, contributing to homologous recombination repair and mutual stabilization of the proteins. SWSAP1 also interacts with key players in the homologous recombination repair process, including RAD51, RAD51B, RAD51C, RAD51D, and XRCC3. These interactions highlight the involvement of SWSAP1 in facilitating the repair of DNA through homologous recombination mechanisms.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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