

## DATASHEET

### Arp 2/3 complex

From porcine brain  
(~90% purity)

Cat. #: 8413-01  
Quantity: 2x50µg

For Use in Research Only.  
Not for Use in Diagnostic Processes.

### Product Description

The seven-subunit protein complex comprises Arp2 and Arp3 and five smaller (Arc) proteins. Both Arp2 and Arp3 sequences possess nucleotide-binding and divalent cation-binding sites. Arp 2/3 complex consists of five associated proteins, namely p16, p20, p21, p34, and p40 (Synonyms: ARPC-5, -4, -3, -2, and -1).

Arp 2/3 is a constitutively inactive complex. Nucleation is efficiently activated *in vitro* by binding of the VCA-domains of members of the Wiskott-Aldrich syndrome family protein, like WAVE (WASP family verprolin homologous).

Lyophilized Arp2/3 complex (50µg) contains 20mM Trizma pH 7.5, 150mM KCl, 0.2mM ATP, 1.0mM DTT, 0.5mM EDTA, 1mM MgCl<sub>2</sub> and 5% disaccharides, when reconstituted with 50µl H<sub>2</sub>O. The protein concentration of the Arp2/3 complex was determined at OD280 (0.1% = 1.033) and the purity by scanning densitometry from Coomassie G-250 stained SDS-Gels. The nucleation activity of the Arp2/3 complex in the presence of GST-VCA (Cat. #: 8416-01) was determined by Fluorometry using 10% Pyrene Actin.

### Product Handling

Preparation of a working stock

Example: Add 50µl H<sub>2</sub>O to the tube with the Arp2/3 complex to obtain a 1mg/ml stock solution. Allow the protein to rehydrate for 2min and repeat vigorous vortexing until dissolved. This stock solution is now ready-to-use. If the Arp2/3 complex was reconstituted as a more concentrate stock solution (e.g. 5mg/ml), use for dilution a buffer containing 20mM Trizma pH 7.5, 150mM KCl, 0.2mM ATP, 1.0mM DTT, 0.5mM EDTA, 1mM MgCl<sub>2</sub>.

### Product Storage and Stability

Store the product at -70° upon arrival, where it will be stable for at least 6 months. The solubilized protein complex is kept on ice and may be stored at -20°C in glycerol.

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