

DATASHEET

GST-VCA

recombinant, human
(>95% purity)

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

Cat. #: 8416-01
Quantity: 250µg

Product Description

The VCA-domains of members of the Wiskott-Aldrich syndrome family protein, like WAVE (WASP family verprolin homologous) activate *in vitro* the nucleation ability of Arp 2/3, which is itself a constitutively inactive complex. The recombinant VCA-domain is supplied as GST-tagged peptide (~35 kDa) expressed in *E. coli*, purified on GST-Sepharose further column purified by gel filtration.

Lyophilized GST-VCA (250µg) contains 20mM Hepes pH 7.4, 150mM NaCl, 1.0mM DTT and 5% disaccharides, when reconstituted with 250µl H₂O.

The protein concentration of the GST-VCA was determined at OD280 (0.1%=1.25) and the purity by scanning densitometry from Coomassie G-250 stained SDS-Gels. The activity was confirmed by activation of the Arp 2/3 complex in fluorimetric assays using 10% Pyrene Actin.

Product Handling

Preparation of a working stock

Example: Add 250µl H₂O to the tube with the GST-VCA 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 protein shall be reconstituted to a more concentrate stock solution (e.g. 5mg/ml), add 50µl H₂O to the tube and proceed as described above. For later dilution use a buffer containing 20mM Hepes pH 7.4, 150mM NaCl, 1.0mM DTT.

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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