

AFDN

Human Recombinant Afadin (aa 1-141) Ras-binding Domain, GST-tag

Catalog No. CSI13809 **Quantity:** 50 µg

Alternate Names: GTP-H-Ras binding cytoplasmic protein, adherens junction formation factor

Description: The N-terminus of Af6 was identified as the Ras-binding site. Additionally to the Ras-binding Af6 also binds Rap. ZO-1, a protein involved in the formation of tight junctions, also binds to Af6 close to the amino terminus thereby competing with Ras binding. This data suggests a participation of Af6 in the regulation of cell-cell contacts via a Ras-modulated interaction with ZO-1. In contrast to the well characterized effectors Raf, RalGEF, and PI(3)kinase, Af6 is a protein with no enzymatic function. It seems to serve as a scaffolding component for protein complexes. This would represent a new type of Ras effector because Ras binding in this case does not lead to the activation of the enzymatic activity of the effector. The GST-Tag facilitates the protein's application in typical GST pull down assays.

UniProt ID: P55196

Gene ID: 4301

Source: *E. coli*

Formulation: 25 mM HEPES, 50 mM NaCl, 1 mM EDTA, 50% glycerol, pH 7.5

Purity: > 95% by SDS-PAGE

Storage & Stability: Store at -80°C for up to 1 year. Upon initial thaw, prepare aliquots and store at -80°C. **Avoid freeze-thaw cycles.**

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