

Recombinant Human RhoD

CATALOG NUMBER: STA-743

STORAGE: -80°C; avoid freeze/thaw cycles

QUANTITY: 5 µg/vial in Tris-HCl, pH 8.0 with 0.2 M NaCl, 2 mM EDTA, 5 mM DTT, 0.1 mM PMSF and 50% glycerol

SHELF LIFE: 1 year from date of receipt under proper storage conditions; for longer term storage add 0.1% BSA

Background

Small GTP-binding proteins (or GTPases) are a family of proteins that serve as molecular regulators in signaling transduction pathways. RhoD regulates a variety of biological response pathways that include cell growth, cell transformation and tumor invasion. Like other small GTPases, RhoD regulates molecular events by cycling between an inactive GDP-bound form and an active GTP-bound form. In its active (GTP-bound) state, RhoD binds specifically to the Rho-binding domain (RBD) of Rhotekin to control downstream signaling cascades.

Purity and Activity

Cell Biolabs' rRhoD is expressed and purified from *E. coli* as a recombinant protein with purity >90% by SDS-PAGE. It has an approximate MW of 23.8 kDa including a His-tag at the N-terminus.

Sequence

MGSSHHHHHHSSGLVPRGSHMVKVVLVGDGGCGKTSLLMVFADGAFPESTPTVFERYMVNLQ
VKGKPVHLHIWDTAGQDDYDRLRPLFYPDASVLLLCFDVTSPNSFDNIFNRWYPEVNHFCCKVPI
IVVGCKTDLRKDKSLVNKLRRNGLEPVTYHRGQEMARSVGAVAYLECSARLHDNVHAVFQEAA
EVALSSRGRNFWRRITQGFC

References

1. Ren X.D. and Schwartz M. A. (2000) *Methods Enzymol.* **325**, 264-72.

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