

**REP-1<sup>His</sup>**

Rab Escort Protein  
fish, recombinant, *E. coli*

Cat. No.	Amount
PR-105	50 µg

**For general laboratory use.**

**Shipping:** shipped on dry ice

**Storage Conditions:** store at -80 °C

**Additional Storage Conditions:** avoid freeze/thaw cycles

**Shelf Life:** 12 months

**Molecular Weight:** 75 kDa

**Purity:** > 90 % (SDS-PAGE)

**Form:** liquid (Supplied in 25 mM HEPES pH 7.2, 40 mM NaCl and 5 mM DTT)

**Description:**

C-terminal His-tagged REP-1 (Rab escort protein-1) binds to a wide range of RabGGTase with nanomolar affinities and supports the prenylation of RabGTPase mediated by RabGGTase.

**Activity:**

1 pmol of REP-1 will mediate transfer of 2 pmol of geranylgeraniol by RabGGTase onto 1 pmol of Rab7 in 3 minutes.

**Selected References:**

Seabra *et al.* (1995) Deficient geranylgeranylation of Ram/Rab27 in choroideremia. *J. Biol. Chem.* **270**:24420.

Alexandrov *et al.* (1994) Rab escort protein-1 is a multifunctional protein that accompanies newly prenylated rab proteins to their target membranes. *EMBO J.* **13**:5262.

Watanabe *et al.* (2008) Inhibitors of Protein Geranylgeranyltransferase I and Rab Geranylgeranyltransferase Identified from a Library of Alkenoate-derived Compounds. *J. Biol. Chem.* **283** (15):9571-9579.