# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-367aa

**UniProt No.** Q9Y295

NCBI Accession No. NP\_004138

**Alternative Names** Developmentally regulated GTP binding protein 1, ADP-ribosylation factor-like 11

# **PRODUCT SPECIFICATION**

**Molecular Weight** 42.7 kDa (387aa) confirmed by MALDI-TOF

**Concentration** 0.5mg/ml (determined by Bradford assay)

**Formulation** Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 1mM EDTA

Purity > 85% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

Developmentally-regulated GTP-binding protein 1 (DRG1) belong to the GTP1/OBG family. It plays a role in cell proliferation and differentiation, as well as in apoptosis, suggesting a role in tumor formation and metastasis. Expression of the DRG1 was significantly reduced in breast tumor cells, particularly in patients with lymph node or bone metastasis as compared to those with localized breast cancer. This protein expressed at high levels in heart, kidney and skeletal muscle and at lower levels in brain, liver, placenta, lung, colon and spleen. Recombinant human DRG1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using



conventional chromatography techniques.

### **Amino acid Sequence**

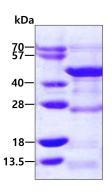
<MGSSHHHHHH SSGLVPRGSH> MSSTLAKIAE IEAEMARTQK NKATAHHLGL LKARLAKLRR ELITPKGGGG GGPGEGFDVA KTGDARIGFV GFPSVGKSTL LSNLAGVYSE VAAYEFTTLT TVPGVIRYKG AKIQLLDLPG IIEGAKDGKG RGRQVIAVAR TCNLILIVLD VLKPLGHKKI IENELEGFGI RLNSKPPNIG FKKKDKGGIN LTATCPQSEL DAETVKSILA EYKIHNADVT LRSDATADDL IDVVEGNRVY IPCIYVLNKI DQISIEELDI IYKVPHCVPI SAHHRWNFDD LLEKIWDYLK LVRIYTKPKG QLPDYTSPVV LPYSRTTVED FCMKIHKNLI KEFKYALVWG LSVKHNPQKV GKDHTLEDED VIQIVKK

#### **General References**

Sazuka, T., et al. (1992) Res. Commun. 189: 363-370. Bandyopadhyay S., et al. (2004). Oncogene 23 (33): 5675-81.

### DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.