

Recombinant Human DRG1, His-tagged

Cat. No. DRG1-3558H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DRG1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-367aa).
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 1mM EDTA.
Molecular Weight	42.7kDa (387aa), confirmed by MALDI-TOF
Purity	> 85% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences Of Amino	MGSSHHHHHH SSGLVPRGSH MSSTLAKIAE IEAEMARTQK NKATAHHLGL

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Acids

LKARLAKLRR ELITPKGGGG GPGEGFDVA KTGDARIGFV GFPSVGKSTL
 LSNLAGVYSE VAAYEFTTLT TVPGVIRYKG AKIQLDLPG IIEGAKDGKG
 RGRQVIAR TCNLILIVLD VLKPLGHKKI IENELEGFI RLNSKPPNIG
 FKKDKGGIN LTATCPQSEL DAETVKSILA EYKIHNAVD LRSDATADDL
 IDVVEGNRVY IPCIYVLNKI DQISIEELDI IYKVPKCVPI SAHHRWNFDD
 LLEKIWDYLG LVRIYTKPKG QLPDYTSPVV LPYSRTTVED FCMKIHKNLI
 KEFKYALVWG LSVKHNPQKV GKDHTLEDED VIQIVKK.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

DRG1 developmentally regulated GTP binding protein 1 [Homo sapiens]

Official Symbol

DRG1

Synonyms

DRG1;developmentally regulated GTP binding protein 1; NEDD3; DKFZp434N1827; developmentally-regulated GTP-binding protein 1; DRG-1; NEDD-3; OTTHUMP0000-0028883; developmentally regulated GTP-binding protein 1; neural precursor cell expressed, developmentally down-regulated 3; neural precursor cell expressed developmentally down-regulated protein 3; Neural precursor cell expressed developmentally down- regulated protein 3

Gene ID

4733

mRNA Refseq

NM_004147

Protein Refseq

NP_004138

MIM

603952

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UniProt ID	Q9Y295
Chromosome Location	22q12.2
Function	GTP binding; nucleotide binding; protein binding; transcription factor binding

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