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**Product Data Sheet**


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Product Name: DRG1 Human  
 Cat. No.: GP23340  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Developmentally-regulated GTP-binding protein 1; DRG-1; Neural precursor cell expressed developmentally down-regulated protein 3; NEDD-3; DRG1; NEDD3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSSTLAKIAE IEAEMARTQK NKATAHHLGL LKARLAKLRR ELITPKGGGG GPGGEGFDVA KTG DARIGFV GFPSVGKSTL LSNLAGVYSE VAAYEFTTLT TVPGVIRYKG AKIQLLDLPG IIEGAKDGKG RGRQVIAVAR TCNLILIVLD VLKPLGHKKI IENELEGFGI RLNSKPPNIG FKKKDKGGIN LTATCPQSEL DAETVKSILA EYKIHNA DVT LRSDATADDL IDVVEGNRVY IPCIYVLNKI DQISIEELDI IYKVP HCVPI SAHHRWNFDD LLEKIWDYLK LVRIYTKPKG QLPDYTSPVV LPYSRTTVED FCMKIHKNLI KEFKYALVWG LSVKHNPQKV GKDHTLEDED VIQIVKK.		
Formulation	DRG1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol and 1mM EDTA.		

**Introduction**

Developmentally-regulated GTP-binding protein 1 (DRG1) is a member of the GTP1/OBG family. DRG1 has a role in cell proliferation and differentiation, as well as in apoptosis, proposing a role in tumor formation and metastasis. Expression of the DRG1 was considerably reduced in breast tumor cells, particularly in patients with lymph node or bone metastasis as compared to those with localized breast cancer. The DRG1 protein is expressed at high levels in the heart, kidney and skeletal muscle and at lower levels in the brain, liver, placenta, lung, colon and spleen.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

DRG1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 387 amino acids (1-367 a.a.) and having a molecular mass of 42.7kDa. DRG1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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