

## Active Recombinant Human PRTG Protein, His-tagged

**Cat. No.** PRTG-856H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human PRTG (Accession # NP_776175) Phe36-Ala952, fused with a C-terminal 6-His tag, was produced in Mouse myeloma cell line, NS0-derived.                                                                                                                                                                                                                                                    |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>               | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>        | Phe36-Ala952                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Predicted N Terminal</b> | Phe36                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>                 | Lyophilized from a 0.2 µ filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>         | Measured by the ability of the immobilized protein to support the adhesion of P19 mouse embryonal carcinoma cells. When $5 \times 10^4$ cells per well are added to Recombinant Human Protogenin coated plates, cell adhesion is enhanced in a dose dependent manner. The ED50 for this effect is typically 2 - 8 µg/mL. Optimal dilutions should be determined by each laboratory for each application. |
| <b>Molecular Mass</b>       | Recombinant Human PRTG, His-tagged has a calculated MW of 102.7 kDa. In SDS-PAGE migrates as 120-130 kDa, reducing conditions.                                                                                                                                                                                                                                                                           |
| <b>Purity</b>               | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>              | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In                                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | PRTG protogenin [ Homo sapiens ]                                                                                                                                                                                                |
| <b>Official Symbol</b>     | PRTG                                                                                                                                                                                                                            |
| <b>Synonyms</b>            | PRTG; protogenin; protogenin homolog (Gallus gallus); FLJ25756; IGDCC5; immunoglobulin superfamily; DCC subclass; member 5; shen-dan; protein Shen-Dan; immunoglobulin superfamily, DCC subclass, member 5; FLJ12795; FLJ13221; |
| <b>Gene ID</b>             | 283659                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_173814                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_776175                                                                                                                                                                                                                       |
| <b>MIM</b>                 | 613261                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | Q2VWP7                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 15q21.3                                                                                                                                                                                                                         |

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