## Recombinant Human NDRG1 Protein (His Tag)

#### Catalog No. PKSH032818

Note: Centrifuge before opening to ensure complete recovery of vial contents.

| Description                 |   |
|-----------------------------|---|
| Synonyms                    | Protein NDRG1;Differentiation-Related Gene 1 Protein;DRG-1;N-myc<br>Downstream-Regulated Gene 1 Protein;Nickel-Specific Induction Protein<br>Cap43;Reducing Agents and Tunicamycin-Responsive<br>Protein;RTP;Rit42;NDRG1;CAP43;DRG1;RTP             |
| Species                     | Human   |
| Expression Host             | E.coli  |
| Sequence                    | Met 1-Cys394  |
| Accession                   | Q92597  |
| Calculated Molecular Weight | 45.0 kDa  |
| Observed molecular weight   | 52 kDa  |
| Tag                         | N-His   |
| Bioactivity                 | Not validated for activity  |
| Properties                  |   |
| Purity                      | > 90 % as determined by reducing SDS-PAGE.  |
| Endotoxin                   | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.  |
| Storage                     | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.               |
| Shipping                    | This product is provided as lyophilized powder which is shipped with ice packs.   |
| Formulation                 | Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as<br>protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| Reconstitution              | Please refer to the printed manual for detailed information.  |
| Data                        |   |

Data



> 90 % as determined by reducing SDS-PAGE.

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### Background

Protein NDRG1 is a member of the N-Myc Downregulated Gene family, which is part of the  $\alpha/\beta$  Hydrolase superfamily. Protein NDRG1 is a cytoplasmic protein that is involved in stress responses, hormone responses, cell growth and differentiation. Protein NDRG1 is necessary for p53-mediated caspase activation and apoptosis. Protein NDRG1 mutuations are reported to be the cause for hereditary motor and sensory neuropathy-Lom. Decreased NDRG1 expression in glioma is linked to tumor progression; overexpression of NDRG1 is connected to malignant status of esophageal cancer.

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