# Recombinant DRG2 protein (His tag)

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| **Catalog Number** | 544711 |
| **Synonyms** | DRG-2; Translation factor GTPase DRG2; TRAFAC GTPase DRG2 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P55039 |
| **Molecular Weight** | Predictes a molecular mass of 42.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band. |

## Product Information

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| **Sequence Region** | 1-364 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 1-364 aa (P55039) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human DRG-2 Fragment (1-364): A high-purity protein encompassing the full-length GTPase domain, ideal for investigating GTP hydrolysis, RNA binding, and translational regulation in cellular studies.<br>Developmentally-regulated GTP-binding protein 2 (DRG-2) is a TRAFAC GTPase that catalyzes GTP hydrolysis to GDP and, when hydroxylated at Lys-21 by JMJD7, may associate with RNA to modulate translation. It localizes to both the nucleus and cytoplasm, indicating roles in diverse cellular compartments. This recombinant fragment includes the complete OBG-type G and TGS domains, enabling focused analysis of domain-specific functions in GTPase activity and translational mechanisms. |