# Recombinant PDXD2 protein (His tag)

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| **Catalog Number** | 551171 |
| **Synonyms** | pyridoxal-dependent decarboxylase domain-containing 2 pseudogene |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q6P474 |
| **Molecular Weight** | Predictes a molecular mass of 53.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band. |

## Product Information

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| **Sequence Region** | 1-469 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >89%, 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 1-469 aa (Q6P474) 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 PDXDC2P (Putative Pyridoxal-Dependent Decarboxylase Domain-Containing Protein 2) Fragment (1-469 aa) – A high-purity, soluble protein fragment designed for structural and biochemical studies, offering a stable unit for investigating decarboxylase activity and enzyme mechanisms.<br>The full-length Putative Pyridoxal-Dependent Decarboxylase Domain-Containing Protein 2 (PDXDC2P) is a human protein annotated as a pseudogene with potential pyridoxal-dependent decarboxylase activity (EC 4.1.1.-). Decarboxylases play critical roles in amino acid metabolism and neurotransmitter synthesis, though the specific biological function and subcellular localization of PDXDC2P are not fully characterized. This recombinant fragment encompasses the complete decarboxylase domain (residues 1-469), enabling researchers to explore its catalytic properties and structural features in vitro. |