Recombinant DRP2 protein (His tag)

Catalog Number	544928
Synonyms	DRP-2
Species	Human
Expression System	E. coli
Accession	Q13474
Molecular Weight	Predictes a molecular mass of 12.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	782-875
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 782-875 aa (Q13474) were fused with 6His tag.

Storage & Handling

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. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Dystrophin-related protein 2 (DRP-2) Fragment (aa 782-875) is a high-purity, stable protein fragment designed for structural and biochemical research. This 94-amino acid soluble unit enables detailed investigation of DRP-2's role in myelination and cytoskeletal organization, providing a valuable tool for neuroscience and cell biology studies. Dystrophin-related protein 2 (DRP-2), encoded by the DRP2 gene in humans, is essential for normal myelination and cytoplasmic organization in myelinating Schwann cells. It plays a critical role in forming Cajal bands and proper localization of PRX at myelin sheath appositions, suggesting involvement in membrane-cytoskeleton interactions within the central nervous system. DRP-2 localizes to multiple cellular compartments including the postsynaptic density, dendrites, perikaryon, and cell membrane as a peripheral membrane protein, with specific detection in Schwann cells at periaxonal myelin membranes, highlighting its importance in neural structure and function.