Recombinant GDAP1 protein (His tag)

Catalog Number	543214
Synonyms	GDAP1
Species	Human
Expression System	E. coli
Accession	Q8TB36
Molecular Weight	Predictes a molecular mass of 35.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	1-291
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-291 aa (Q8TB36) 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	Introducing the recombinant human Ganglioside-induced differentiation-associated protein 1 (GDAP1) fragment (amino acids 1-291), a high-quality protein tool designed to study mitochondrial dynamics. This fragment fully encompasses the GST N-terminal domain, making it ideal for investigating domain-specific functions in mitochondrial fission regulation. Ganglioside-induced differentiation-associated protein 1 (GDAP1) is a crucial regulator of mitochondrial network organization, primarily functioning to promote mitochondrial fission. Located in the mitochondrial outer membrane as a multi-pass membrane protein, GDAP1 plays an essential role in maintaining mitochondrial morphology and function. The protein's presence in both mitochondrial and cytoplasmic compartments underscores its importance in cellular energy regulation and organelle dynamics, with implications for understanding neurodegenerative disorders and cellular metabolism.