Recombinant DPPA2 protein (His tag)

Catalog Number	549551
Synonyms	Pluripotent embryonic stem cell-related gene 1 protein
Species	Human
Expression System	E. coli
Accession	Q7Z7J5
Molecular Weight	Predictes a molecular mass of 15.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	178-298
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 178-298 aa (Q7Z7J5) 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 Developmental Pluripotency-Associated Protein 2 (DPPA2) Fragment (aa 178-298) - A highly stable and soluble protein fragment ideal for structural biology and epigenetic research applications. Developmental pluripotency-associated protein 2 (DPPA2), also known as Pluripotent embryonic stem cell-related gene 1 protein, plays a crucial role in maintaining the active epigenetic status of specific target genes. The protein functions by binding to promoters of key developmental genes including NKX2-5 and SYCE1, though notably not GATA4, suggesting selective regulatory mechanisms in epigenetic maintenance. DPPA2 is localized to the nucleus, consistent with its role in gene regulation and epigenetic control processes essential for pluripotency and developmental programming.