Recombinant SMRD3 protein (His tag)

Catalog Number	545232
Synonyms	60 kDa BRG-1/Brm-associated factor subunit C; BRG1-associated factor 60C; BAF60C
Species	Human
Expression System	E. coli
Accession	Q6STE5
Molecular Weight	Predictes a molecular mass of 46.09 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	104-483
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 104-483 aa (Q6STE5) 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 SMARCD3 (BAF60C) Fragment (104-483) is a high-purity protein product encompassing the critical SWIB/MDM2 domain. This fragment serves as an essential tool for studying chromatin remodeling mechanisms, specifically designed for researchers investigating transcriptional regulation and neural development pathways. SMARCD3 (BAF60C) is a key component of SWI/SNF chromatin remodeling complexes that alter DNA-nucleosome topology through ATP-dependent enzymatic activity. This protein plays crucial roles in both transcriptional activation and repression by modifying chromatin structure. It is particularly significant in neural development, where it participates in the transition from neural stem/progenitor cells (npBAF complex) to postmitotic neurons (nBAF complex). The protein localizes to the nucleus and contributes to nuclear receptor-mediated transcription and dendrite growth regulation, making it vital for understanding epigenetic regulation and neural differentiation processes.