Recombinant HM20B protein (His tag)

Catalog Number	543783
Synonyms	SMARCE1-related protein; BRCA2-associated factor 35; HMG box-containing protein 20B; HMG domain-containing protein 2; HMG domain-containing protein HMGX2; Sox-like transcriptional factor; Structural DNA-binding protein BRAF35
Species	Human
Expression System	E. coli
Accession	Q9P0W2
Molecular Weight	Predictes a molecular mass of 30.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	68-317
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 68-317 aa (Q9P0W2) 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 SMARCE1-related protein fragment (HMG20B, residues 68-317), a highly stable and soluble unit derived from the human chromatin regulator. This 250-amino acid fragment is ideal for structural studies and biochemical assays, offering researchers a reliable tool to investigate cell cycle progression and transcriptional repression mechanisms. The full-length SMARCE1-related protein (encoded by HMG20B) is a critical nuclear and chromosomal factor in human cells. It ensures proper progression through the G2 phase of the cell cycle and facilitates entry into mitosis. Additionally, it supports RCOR1/CoREST-mediated repression of neuronal-specific gene promoters, highlighting its role in epigenetic regulation. Localized to the nucleus and condensed chromosomes during mitosis, it interacts with BRCA2, underscoring its importance in maintaining genomic integrity and cell division processes.