Recombinant HMGA2 protein (His tag)

Catalog Number	537824
Synonyms	High mobility group AT-hook protein 2
Species	Human
Expression System	E. coli
Accession	P52926
Molecular Weight	Predictes a molecular mass of 13.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	2-109
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 2-109 aa (P52926) 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 HMGI-C (HMGA2) fragment (residues 2-109), a stable and soluble protein unit derived from human High Mobility Group AT-hook protein 2. This fragment is expertly designed for structural and biochemical studies, offering researchers a reliable tool to investigate transcriptional regulation and cell cycle mechanisms. High Mobility Group Protein HMGI-C (HMGA2) is a transcriptional regulator in humans, primarily localized in the nucleus. It plays critical roles in cell cycle progression by regulating CCNA2 and is essential for chromosome condensation during the meiotic G2/M transition in spermatocytes. Additionally, HMGA2 contributes to postnatal myogenesis and satellite cell activation, and it positively regulates IGF2 expression both dependently and independently of PLAG1, highlighting its significance in developmental and cellular processes.