重组人SMBP2蛋白

Recombinant SMBP2 protein (His tag)

目录号 Catalog Number	537719
同用名 Synonyms	ATP-dependent helicase IGHMBP2; Glial factor 1; GF-1; Immunoglobulin mu-binding protein 2
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	P38935
分子量 Molecular Weight	Predictes a molecular mass of 13.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKVKADN TCGFAKCTAG VTTLGQFCQL CSRRYCLSHH LPEIHGCGER ARAHARQRIS REGVLYAGSG TKNGSLDPAK RAQLQRRLDK KLSELSNQRT SRRKERGTLE HHHHHH
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 891-993 aa (P38935) were fused with C-terminal 6His tag.

保存与运输

复溶 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.
储存 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.
运输 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.

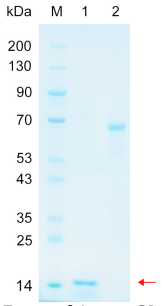
功能描述

研究背景 Background

Recombinant Human DNA-binding protein SMUBP-2 fragment (residues 891-993) is a highly purified protein product derived from the IGHMBP2 gene. This 103-amino acid fragment represents a stable and soluble unit of the full-length protein, which functions as an ATP-dependent helicase involved in RNA and DNA unwinding. This carefully selected fragment is ideal for structural studies, biochemical characterization, and functional assays.
The full-length DNA-binding protein SMUBP-2 (also known as IGHMBP2) is a multifunctional enzyme with both 5' to 3' helicase activity (EC 3.6.4.12 and EC 3.6.4.13) that unwinds RNA and DNA duplexes in an ATP-dependent manner. This protein demonstrates specificity for 5'-phosphorylated single-stranded guanine-rich sequences and plays crucial roles in RNA metabolism, ribosome biogenesis, and potentially translation initiation. SMUBP-2 also interacts with tRNA-Tyr and may participate in transcriptional regulation. The protein localizes to both nuclear and cytoplasmic compartments, with evidence of presence in axonal projections, suggesting diverse cellular functions across different subcellular environments.

验证数据

SDS-PAGE



Recombinant SMBP2 protein (His tag) SDS-PAGE
M: Marker; Lane 1: SMBP2; Lane 2: BSA