
Product Data Sheet

Product Name: PABPN1 Human
 Cat. No.: GP24119
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Poly(A) Binding Protein Nuclear 1; Poly(A) Binding Protein 2; Polyadenylate-Binding Nuclear Protein 1; PABP-2; OPMD; PAB2; Nuclear Poly(A)-Binding Protein 1; PABII.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSLEAIKAR VREMEEEAEK LKELQNEVEK QNMMSPPPGN AGPVIMSIEE KMEADARSIY VGNVDYGATA EELEAHFHGC GSVNRVTILC DKFSGHPKGF AYIEFSDKES VRTSLALDES LFRGRQIKVI PKRTNRPGIS TDRGFPRAR YRARTTNYNS SRSRFYSGFN SRPRGRVYRG RARATSWYSP Y		
Formulation	The PABPN1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

PABPN1 is an highly expressed nuclear protein which has high affinity to nascent poly(A) tails. PABPN1 is essential for progressive and efficient polymerization of poly(A) tails at the 3' ends of eukaryotic transcripts and regulates the length of the poly(A) tail to about 250 nt. In its steady-state, PABPN1 is restricted to the nucleus however there are different poly(A) binding proteins which can be found in the cytoplasm. PABPN1 has a GCG trinucleotide repeat at the 5' end of the coding region. Expansion of this repeat from the normal 6 copies to 8-13 copies results in autosomal dominant oculopharyngeal muscular dystrophy (OPMD) disease. Associated pseudogenes were located on chromosomes 19 and X. Additionally, there is a read-through transcription between PABPN1 gene and the adjacent upstream BCL2L2 (BCL2-like 2) gene.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PABPN1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 211 amino acids (119-306) and having a molecular mass of 23.8 kDa. PABPN1 is fused to a 23 amino acid His-tag at N-terminus.

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