

Recombinant Human GPN-Loop GTPase 1, His-tagged

Cat. No. GPN1-6847H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GPN1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-374aa
Description	GPN1 belongs to the GPN-loop GTPase family. Small GTPases share a biochemical mechanism and act as binary molecular switches. One important function of small GTPases in the cell is nucleocytoplasmic transport of both proteins and RNA. This protein may play a role in DNA repair and may function in activation of transcription.
Form	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl.
Molecular Mass	44.3kDa (398aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAASAA AAELQASGGP RHPVCLLVLG MAGSGKTTFFV QRLTGHLHAQ GTPPYVINLD PAVHEVPFPA NIDIRDTVKY KEVMKQYGLG PNGGIVTSLN LFATRFDQVM KFIEKAQNMS KYVLIDTPGQ IEVFTWSASG TIITEALASS FPTVVIYVMD TSRSTNPVTF MSNMLYACSI LYKTKLPFIV VMNKTDIIDH SFAVEWMQDF EAFQDALNQE TTYVSNLTRS MSLVLDEFYS SLRVVGVS AV LGTGLDEL FV QVTSAAEEYE REYRPEYERL KKSLANAESQ QQREQRLRLR KDMGSVALDA GTAKDSLSPV LHPSDLILTR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GTLDEEDEEA DSDTDDIDHR VTEESHEEPA FQNFMQESMA QYWKRNNK

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [GPN1 GPN-loop GTPase 1 \[Homo sapiens \]](#)

Official Symbol GPN1

Synonyms GPN1; GPN-loop GTPase 1; XAB1, XPA binding protein 1 , XPA binding protein 1, GTPase; ATPBD1A; MBDIN; NTPBP; RNA polymerase II associated protein 4; RPAP4; XPA-binding protein 1; ATP(GTP)-binding protein; MBD2-interacting protein; XPA binding protein 1, GTPase; XAB1; FLJ51176;

Gene ID [11321](#)

mRNA Refseq [NM_001145047](#)

Protein Refseq [NP_001138519](#)

MIM [611479](#)

UniProt ID [Q9HCN4](#)

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Chromosome Location	2p23.3
Function	GTP binding; nucleoside-triphosphatase activity; nucleotide binding;