

## GPN1 Human

**Description:**GPN1 Human Recombinant produced in E. coli is a single polypeptide chain containing 398 amino acids (1-374) and having a molecular mass of 44.3 kDa.GPN1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PRPS-1147

**Synonyms:**GPN-loop GTPase 1, XPA binding protein 1 GTPase, RNA polymerase II associated protein 4, MBD2-interacting protein, MBDin, ATP(GTP)-binding protein, XAB1, ATPBD1A, NTPBP, RPAP4.

For research use only.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHEMAASAA AAELQASGGP  
RHPVCLLVLG MAGSGKTTFF QRLTGHLHAQ GTPPYVINLD PAVHEVPFPA NIDIRDTVKY  
KEVMKQYGLG PNGGIVTSLN LFATRFDQVM KFIEKAQNMS KYVLIDTPGQ IEVFTWSASG  
TIITEALASS FPTVVIYVMD TSRSTNPVTF MSNMLYACSI LYKTKLPFIV VMNKTDIIDH  
SFAVEWMQDF EA

**Purity:**Greater than 90% as determined by SDS-PAGE.

### Formulation:

The GPN1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 50mM NaCl, 1mM DTT and 10% glycerol.

### Stability:

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

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

GPN-loop GTPase 1 (GPN1) is a member of the GPN-loop GTPase family. GPN1 is a guanosine triphosphatase enzyme which has a role in DNA repair and may function in activation of transcription. Small GTPases, which share a biochemical mechanism, act as binary molecular switches and function in the cell is nucleocytoplasmic transport of both proteins and RNA. In addition, GPN1 establishes an interface between the RNA polymerase II enzyme and chaperone/scaffolding protein, proposing that it is essential to connect RNA polymerase II to regulators of protein complex formation. GPN1 may also be involved in nuclear localization of XPA.

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