9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GPN1 Human

GPN-loop GTPase 1 Human Recombinant
RCP0959

Product Overview

Name	GPN1 Human
Description	
GPN-loop GTPase 1 Human Recombinant	
Accession (Primary)	Q9HCN4
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.	
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 establishs 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.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
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.	
Purity	
Greater than 90% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGSH MAASAA AAELQASGGP RHPVCLLVLG MAGSGKTTFV QRLTGHLHAQ GTPPYVINLD PAVHEVPFPA NIDIRDTVKY KEVMKQYGLG PNGGIVTSLN LFATRFDQVM KFIEKAQNMS	

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KYVLIDTPGQ IEVFTWSASG TIITEALASS FPTVVIYVMD TSRSTNPVTF MSNMLYACSI LYKTKLPFIV VMNKTDIIDH SFAVEWMQDF EAFQDALNQE TTYVSNLTRS MSLVLDEFYS SLRVVGVSAV LGTGLDELFV QVTSAAEEYE REYRPEYERL KKSLANAESQ QQREQLERLR KDMGSVALDA GTAKDSLSPV LHPSDLILTR GTLDEEDEEA DSDTDDIDHR VTEESHEEPA FQNFMQESMA QYWKRNNK

Precautions

GPN1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9HCN4)