9051 Mira Mesa Blvd, #910094
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PA2G4 Human

Proliferation-associated protein 2G4 Human Recombinant
RCP1580

Product Overview

Name	PA2G4 Human
Description	
Proliferation-associated protein 2G4 Human Recombinant	
Accession (Primary)	Q9UQ80
Synonyms	
Proliferation-associated protein 2G4, Cell cycle protein p38-2G4 homolog, hG4-1, ErbB3-binding protein 1, PA2G4, EBP1, p38-2G4.	
Introduction	
PA2G4 belongs to the peptidase M24C family and functions as an RNA-binding protein involved in cellular proliferation and differentiation processes. PA2G4 is a component of pre-ribosomal ribonucleoprotein complexes, participating in ribosome assembly and regulating the later steps of rRNA processing. Also, PA2G4 interacts with ErbB-3 and may function as a modulator of the ErbB-3 mediated signal transduction pathway by regulating the effects of Neuregulin-1. Furthermore, PA2G4 is a transcriptional co-repressor of androgen receptor-regulated genes and other cell cycle regulatory genes through its interactions with histone deacetylases. PA2G4 is implicated in growth inhibition and the induction of differentiation of human cancer cells. In addition, PA2G4 mediates cap-independent translation of specific viral IRESs (internal ribosomal entry site). PA2G4 associates with 28S, 18S and 5.8S mature rRNAs, several rRNA precursors and probably U3 small nucleolar RNA.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The PA2G4 protein solution contains 20mM Tris-HCl buffer (pH8.0) 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 95.0% as determined by SDS-PAGE.	

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Amino acid sequence

MSGEDEQQEQ TIAEDLVVTK YKMGGDIANR VLRSLVEASS SGVSVLSLCE KGDAMIMEET GKIFKKEKEM KKGIAFPTSI SVNNCVCHFS PLKSDQDYIL KEGDLVKIDL GVHVDGFIAN VAHTFVVDVA QGTQVTGRKA DVIKAAHLCA EAALRLVKPG NQNTQVTEAW NKVAHSFNCT PIEGMLSHQL KQHVIDGEKT IIQNPTDQQK KDHEKAEFEV HEVYAVDVLV SSGEGKAKDA GQRTTIYKRD PSKQYGLKMK TSRAFFSEVE RRFDAMPFTL RAFEDEKKAR MGVVECAKHE LLQPFNVLYE KEGEFVAQFK FTVLLMPNGP MRITSGPFEP DLYKSEMEVQ DAELKALLQS SASRKTQKKK KKKASKTAEN ATSGETLEEN EAGDLEHHHH HH.

Precautions

PA2G4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9UQ80)