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# Recombinant human PIR-B protein

Catalog Number: ATGP1413

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-290aa

#### **UniProt No.**

000625

#### **NCBI Accession No.**

NP 001018119

#### **Alternative Names**

Pirin, Probable guercetin 2,3-dioxygenase PIR

# PRODUCT SPECIFICATION

### **Molecular Weight**

34.3 kDa (310aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

PIR, also known as pirin, is a member of the cupin superfamily. PIR is an Fe (II) -containing nuclear protein expressed in all tissues of the body and concentrated within dot-like subnuclear structures. Interactions with nuclear factor I/CCAAT box transcription factor as well as B cell lymphoma 3-encoded oncoprotein suggest the encoded protein may act as a transcriptional cofactor and be involved in the regulation of DNA transcription and replication. Recombinant human PIR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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# **Amino acid Sequence**

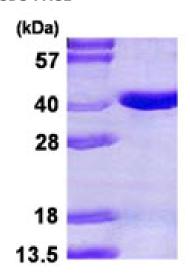
<MGSSHHHHHH SSGLVPRGSH> MGSSKKVTLS VLSREQSEGV GARVRRSIGR PELKNLDPFL LFDEFKGGRP GGFPDHPHRG FETVSYLLEG GSMAHEDFCG HTGKMNPGDL QWMTAGRGIL HAEMPCSEEP AHGLQLWVNL RSSEKMVEPQ YQELKSEEIP KPSKDGVTVA VISGEALGIK SKVYTRTPTL YLDFKLDPGA KHSQPIPKGW TSFIYTISGD VYIGPDDAQQ KIEPHHTAVL GEGDSVQVEN KDPKRSHFVL IAGEPLREPV IQHGPFVMNT NEEISQAILD FRNAKNGFER AKTWKSKIGN

#### **General References**

Gelbman B.D., et al. (2007) Respir. Res. 8:10-10 Licciulli S., et al. (2010) Leukemia. 24:429-437

# **DATA**

# **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

