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## Product Data Sheet

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Product Name: PIR Human  
 Cat. No.: GP24188  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pirin; Probable quercetin 2;3-dioxygenase PIR; Probable quercetinase; PIR.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSKKVTLS VLSREQSEGV GARVRRSISR 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.		
Formulation	PIR protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

### Introduction

Pirin (PIR) which belongs to the cupin superfamily, is an Fe(II)-containing nuclear protein expressed in all tissues of the body and concentrated within dot-like subnuclear structures. Pirin may function as a transcriptional cofactor and is involved in the regulation of DNA transcription and replication, as a result of interactions with nuclear factor I/CCAAT box transcription factor as well as B cell lymphoma 3-encoded oncoprotein.

### 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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PIR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 310 amino acids (1-290 a.a.) and having a molecular mass of 34.3kDa. PIR is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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