
Product Data Sheet

Product Name: FKBP4 Human
 Cat. No.: GP21630
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HBI; p52; Hsp56; FKBP52; FKBP59; PPIase; FKBP4; FK506-binding protein 4; Peptidyl-prolyl cis-trans isomerase; HSP-binding immunophilin; FKBP52 protein; 52 kDa FK506-binding protein; p59 protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MTAEEMKATE SGAQSAPLPM EGVDISPKQD EGVLKVIKRE GTGTEMPMIG DRVHVHYTGW LLDGTKFDSS LDRKDKFSFDLGKGEVIKAW DIAIATMKVG EVCHITCKPE YAYGSAGSPP KIPPNATLVF EVELFEFKGE DLTEEDGGI IRRIQTRGEG YAKPNEGAIV EVALEGYYKDKLFDQRELRF EIGEGENLDL PYGLERAIQR MEKGEHSIVY LKPSYAFGSV GKEKFQIPPV AELKYELHLK SFEKAKESWE MNSEEKLEQS TIVKERGTVYFKEGKYKQAL LQYKKIVSWL EYESSFSNEE AQKAQALRLA SHLNLAMCHL KLQAFSAAIE SCNKALELDS NNEKGLFRRG EAHLAVNDFE LARADFQKVLQLYPNNKAAK TQLAVCQQRI RRQLAREKKL YANMFERLAE EENKAKAEAS SGDHPDTEM KEEQKSNTAG SQQVETEA.		
Formulation	The FKBP4 protein solution contains 20mM Tris-HCl, pH-8 and 10% glycerol.		

Introduction

FKBP4 is part of the immunophilin protein family, which takes part in immunoregulation and necessary cellular processes concerning protein folding and trafficking. FKBP4 is a cis-trans prolyl isomerase that connects to the immunosuppressants FK506 and rapamycin. FKBP4 has high structural and functional similarity to FKBP1A, though, FKBP4 does not have immunosuppressant activity when complexed with FK506. FKBP4 is known to connect with phytanoyl-CoA alpha-hydroxylase. FKBP4 associates with HSP90 & HSP70 thus takes part in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. FKBP4 highly associates with adeno-associated virus type 2

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

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vectors (AAV) resulting in a considerable increase in AAV-mediated transgene expression in human cell lines. FKBP4 is involved in the optimal use of AAV vectors in human gene therapy.

Biological Activity

Specific activity is > 300 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH 8.0 using chymotrypsin.

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

FKBP4 produced in E.Coli is a single,non-glycosylated polypeptide chain containing 479 amino acids (1-459 a.a.) and having a molecular mass of 53.9 kDa.FKBP4 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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