
Product Data Sheet

Product Name: IL4I1 Human
 Cat. No.: GP26043
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	IL-4I1, IL4I1, IL4-I1, IL4I-1		
Amino Acid Sequence	ADL QDWKAER SQDPFEKCMQ DPDYEQLLKV VTWGLNRTLK PQRVIVVGAG VAGLVAAKVL SDAGHKVTIL EADNRIGGRI FTYRDQNTGW IGELGAMRMP SSHRILHKLC QGLGLNLTKEF TQYDKNTWTE VHEVKLRNYV VEKVPEKLG ALRPQEKGHS PEDIYQMALN QALKDLKALG CRKAMKKFER HTLLEYLLGE GNLSRPAVQL LGDVMSSEDF FYLSFAEALR AHSCLSDRLQ YSRIVGGWDL LPRALLSSLS GLVLLNAPVV AMTQOPHDVH VQIETSPPAR NLKVLKADV LLTASGPAVK RITFSPPLPR HMQEALRRHL YVPATKVFLS FRRPFWREEH IEGGHSNTDR PSRMIFYPPP REGALLASY TWSDAFAAFA GLSREEALRL ALDDVAALHG PVVRQLWDGT GVKRWAEDQ HSQGGFVVQP PALWQTEKDD WTPYGRIFY AGEHTAYPHG WVETAVKSAL RAAKINSRK GPASDTASPE GHASDMEGQG HVHGVASSPS HDLAKEEGSH PPVQGQLSLQNTTHTRTSH H HHHHHH		
Formulation	IL4I1 protein solution (0.25mg/ml) contains 25mM MES pH-5.5, 40% glycerol and 100mM NaCl.		

Introduction

IL4I1 is a secreted L-amino acid oxidase protein that mainly catabolizes L-phenylalanine. IL4I1 expression is induced by the IL4 in B cells. IL4I1 is expressed in dendritic cells & macrophages. IL4I1 takes part in the immune system since it is expressed in tumor-associated macrophages and suppresses T-cell responses. IL4I1 plays a role in the binding of flavin adenine dinucleotide cofactor.

Biological Activity

> 300 pmol/min/ug, defined as the amount of enzyme that oxidize 3-phenylpyruvate pH-

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

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7 at 25C.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC 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

IL4R produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (26-232 a.a.) and fused to an 8 aa His Tag at C-terminus containing a total of 215 amino acids and having a molecular mass of 24.7kDa. IL4R shows multiple bands between 28-40kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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