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## Datasheet for ABIN1668875 **1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (DXR)** (AA 1-387) protein (His tag)



Overview

Quantity:	1 mg
Target:	1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (DXR)
Protein Characteristics:	AA 1-387
Origin:	Pelotomaculum thermopropionicum
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	ELISA
Product Details	
Sequence:	MKNIVLIGST GSIGRQTLEV IGSLPDRFKV VGLGSGKNWR LMAEQIRVFR PSAVAMAGER
	EIMNLKELLA GSYCPELGWG RTGMESLASM PEADLVVVAV TGFAGIYPTI AAIQAGKDVA
	LANKETLVAA GHLVMKMAER HRAAILPVDS EHSAVWQCLC GRNSGEVEKI ILTASGGPFR

Purity:	> 90 %
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien cells or by baculovirus infection. Be aware about differences in price and lead time.
Specificity:	Pelotomaculum thermopropionicum (strain DSM 13744 / JCM 10971 / SI)
	DPGLEEIIEA DRWARNMGVK VIRDLFN
	TRRFPCLSLA FEAGLAGGTM PAVLNAANEV AVEFFLKGLL PFLGIPSVVR SVMEKHEMAS
	PQSIVHSAVE FLDGSVIAQM GLPDMRLPIQ YALTYPERLP GSFPKLKLAS LQGLTFEEPD
	EMCLEKLEKV TVDMALKHPN WNMGSKITID SATLMNKGLE VIEAKWLFGL NYSQIEVVIH
	LANKETLVAA GHLVMKMAER HRAAILPVDS EHSAVWQCLC GRNSGEVEKI ILTASGGPFR

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## Target Details

Target:	1-Deoxy-D-Xylulose 5-Phosphate Reductoisomerase (DXR)
Abstract:	DXR Products
Background:	Recommended name: 1-deoxy-D-xylulose 5-phosphate reductoisomerase.
	Short name= DXP reductoisomerase.
	EC= 1.1.1.267.
	Alternative name(s): 1-deoxyxylulose-5-phosphate reductoisomerase 2-C-methyl-D-erythritol 4-
	phosphate synthase
UniProt:	A5D2U3
Pathways:	Cellular Glucan Metabolic Process

## Application Details

Comment:	The yeast protein expression system is the most economical and efficient eukaryotic system
	for secretion and intracellular expression. A protein expressed by the mammalian cell system is
	of very high-quality and close to the natural protein. But the low expression level, the high cost
	of medium and the culture conditions restrict the promotion of mammalian cell expression
	systems. The yeast protein expression system serve as a eukaryotic system integrate the
	advantages of the mammalian cell expression system. A protein expressed by yeast system
	could be modificated such as glycosylation, acylation, phosphorylation and so on to ensure the
	native protein conformation. It can be used to produce protein material with high added value
	that is very close to the natural protein. Our proteins produced by yeast expression system has
	been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions:

For Research Use only

## Handling

Format:	Lyophilized
Concentration:	0.2-2 mg/mL
Buffer:	Tris-based buffer, 50 % glycerol
Handling Advice:	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week
Storage:	-20 °C
Storage Comment:	Store at -20 °C, for extended storage, conserve at -20 °C or -80 °C.

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