Datasheet for ABIN7479255

TPMT Protein (AA 4-244, partial) (GST tag)

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1 Image

Overview

Quantity:	100 µg
Target:	TPMT
Protein Characteristics:	AA 4-244, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TPMT protein is labelled with GST tag.
Application:	ELISA

Product Details

Sequence:	TRTSLDIEEY SDTEVQKNQV LTLEEWQDKW VNGKTAFHQE QGHQLLKKHL DTFLKGKSGL RVFFPLCGKA VEMKWFADRG HSVVGVEISE LGIQEFFTEQ NLSYSEEPIT EIPGTKVFKS SSGNISLYCC SIFDLPRTNI GKFDMIWDRG ALVAINPGDR KCYADTMFSL LGKKFQYLLC VLSYDPTKHP GPPFYVPHAE IERLFGKICN IRCLEKVDAF EERHKSWGID CLFEKLYLLT E
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.
Purity:	95 %

Target Details

Target:	TPMT
Alternative Name:	Thiopurine S-methyltransferase protein (TPMT Products)

Target Details

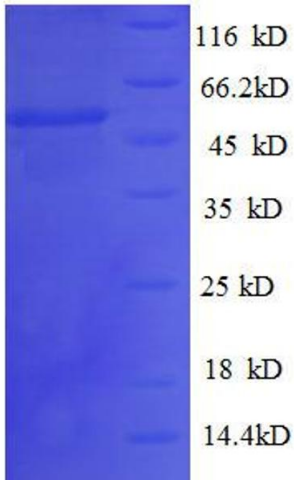
Background:	Catalyzes the S-methylation of thiopurine drugs such as 6-mercaptopurine. Defects in TPMT are the cause of thiopurine S-methyltransferase deficiency (TPMT deficiency) [MIM:610460]. TPMT is an enzyme involved in the normal metabolic inactivation of thiopurine drugs. These drugs are generally used as immunosupressants or cytotoxic drugs and are prescribed for a variety of clinical conditions including leukemia, autoimmune disease and organ transplantation. Patients with intermediate or no TPMT activity are at risk of toxicity after receiving standard doses of thiopurine drugs and it is shown that inter-individual differences in response to these drugs are largely determined by genetic variation at the TPMT locus.
Molecular Weight:	55.1 kD
UniProt:	P51580

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



SDS-PAGE

Image 1. Thiopurine S-Methyltransferase (TPMT) (AA 4-244), (partial) protein (GST tag)

