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Datasheet for ABIN1047487

Osteopontin Protein (AA 17-300, partial) (His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	Osteopontin (SPP1)
Protein Characteristics:	AA 17-300, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Osteopontin protein is labelled with His tag.
Application:	ELISA

Product Details

Sequence:	IPVKQADSGS SEEKQLYNKY PDAVATWLNP DPSQKQNLLA PQNAVSSEET NDFKQETLPS KSNESHDHMD DMDDDEDDDDH VDSQDSIDSN DSDDVDDTDD SHQSDESHHS DESDELVTDF PTDLPATEVF TPVPTVDY DGRGDSVWYG LRSKSKKFRR PDIQYDATD EDITSHMESE ELNGAYKAIP VAQDLNAPSD WDSRGKDSYE TSQLDDQSAE TSHKQSRLY KRKANDESNE HSDVIDSQEL SKVSREFHSH EFHSHEDMLV VDPKSKEEDK HLKF
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %

Target Details

Target:	Osteopontin (SPP1)
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Target Details

Alternative Name:	Osteopontin protein (SPP1 Products)
Background:	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity By similarity.
Molecular Weight:	36.3 kD
UniProt:	P10451
Pathways:	Regulation of Cell Size

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 modified 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

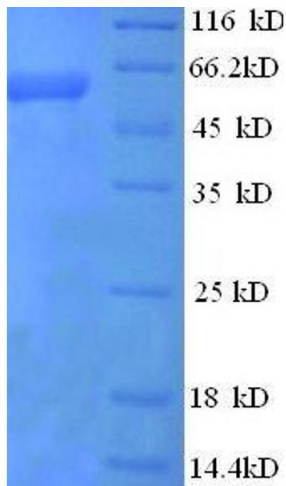
Handling

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

Publications

Product cited in: Hartter, Khalafpour, Missbichler, Hawa, Woloszczuk: "Enzyme immunoassays for fragments (epitopes) of human proatrial natriuretic peptides." in: **Clinical chemistry and laboratory medicine : CCLM / FESCC**, Vol. 38, Issue 1, pp. 27-32, (2000) ([PubMed](#)).

Images



SDS-PAGE

Image 1. Secreted phosphoprotein 1 (SPP1) (AA 17-300), (partial) protein (His tag)