

Datasheet for ABIN7596383
HSP27 Protein (AA 1-209) (His tag)



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Overview

Quantity:	500 µg
Target:	HSP27 (HSPB1)
Protein Characteristics:	AA 1-209
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSP27 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MTERRVP FSLLRSPSWE PFRDWYPAHS RLFDQAFGVP RLPDEWSQWF SAAGWPGYVR PLPAATAEGP AAVTLAAPAF SRALNRQLSS GVSEIRQTAD RWRVSLDVNH FAPEELTVKT KEGVVEITGK HEERQDEHGY ISRCFTRKYT LPPGVDPTLV SSSLSPGTL TVEAPLPKAV TQSAEITIPV TFEARAQIGG PEAGKSEQSG AK
Purity:	> 90% by SDS-PAGE

Target Details

Target:	HSP27 (HSPB1)
Alternative Name:	HSP27 (HSPB1 Products)
Background:	HSP27, also known as heat shock protein beta-1, is one of the small heat shock proteins and constitutively expressed in various tissues. HSP27 expression is increased to high levels after

Target Details

various types of stress including elevated temperatures, toxic metals, drugs and oxidants. HSP27 and its phosphorylation state participate in the regulation of multiple physiological and pathophysiological cell functions. However, the exact roles of HSP27 in osteoblasts remain unclear. In the present study, we investigated the role of HSP27 in the platelet-derived growth factor-BB(PDGF-BB)-stimulated migration of osteoblast-like MC3T3-E1 cells. Recombinant mouse HSP27, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography techniques.

Molecular Weight:	25.4 kDa (232aa) confirmed by MALDI-TOF
NCBI Accession:	NP_038588
Pathways:	MAPK Signaling , Regulation of Actin Filament Polymerization , Signaling Events mediated by VEGFR1 and VEGFR2 , Negative Regulation of intrinsic apoptotic Signaling , VEGF Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.