Datasheet for ABIN7317558

HSP90AA1 Protein

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Overview

Quantity:	100 µg
Target:	HSP90AA1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human HSP90AA1/HSP90 Protein
Sequence:	Glu 535-Asp 732
Characteristics:	A DNA sequence encoding the human HSP90 isoform 2 (NP_005339.3) C-terminal segment, corresponding to amino acid sequence (Glu 535-Asp 732) was expressed and purified, with two additonal aa (Gly & Pro) at the N terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.

Target Details

Target:	HSP90AA1
Alternative Name:	HSP90AA1/HSP90 (HSP90AA1 Products)
Background:	Background: Heat shock protein 90 (90 kDa heat-shock protein, HSP90) is a molecular chaperone involved in the trafficking of proteins in the cell. It is a remarkably versatile protein involved in the stress response and in normal homoeostatic control mechanisms. HSP90 interacts with 'client proteins', including protein kinases, transcription factors and others, and either facilitates their

Target Details

	stabilization and activation or directs them for proteasomal degradation. By this means, HSP90 displays a multifaceted ability to influence signal transduction, chromatin remodelling and epigenetic regulation, development and morphological evolution. HSP90 operates as a dimer in a conformational cycle driven by ATP binding and hydrolysis at the N-terminus. Disruption of HSP90 leads to client protein degradation and often cell death. Under stressful conditions, HSP90 stabilizes its client proteins and provides protection to the cell against cellular stressors such as in cancer cells. Especially, several oncoproteins act as HSP90 client proteins and tumor cells require higher HSP90 activity than normal cells to maintain their malignancy. For this reason, Hsp90 has emerged as a promising target for anti-cancer drug development. Synonym: EL52,HSP86,Hsp89,HSP89A,Hsp90,HSP90A,HSP90N,HSPC1,HSPCA,HSPCAL1,HSPCAL4,HSPN,LAP-2,LAP2
Molecular Weight:	22.6 kDa
NCBI Accession:	NP_005339
Pathways:	M Phase, Regulation of Cell Size, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.