Datasheet for ABIN7317649

S100A3 Protein (His tag,MBP tag)

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Overview

Quantity:	100 µg
Target:	S100A3
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This S100A3 protein is labelled with His tag,MBP tag.

Product Details

Purpose:	Recombinant Human S100A3/S100E Protein (His & MBP Tag)
Sequence:	Met 1-Gln 101
Characteristics:	A DNA sequence encoding the human S100A3 (P33764) (Met 1-Gln 101) was fused with an N-terminal polyhistidine-tagged MBP tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	S100A3
Alternative Name:	S100A3/S100E (S100A3 Products)
Background:	Background: Protein S100-A3, also known as Protein S-100E, S100 calcium-binding protein A3, S100A3 and S100E, is a member of the S-100 family. S100A3 / S100E contains 2 EF-hand domains. S100A3 / S100E is highly expressed in the differentiating cuticular cells within the hair follicle and organized into mature hair cuticles. High concentrations of S100A3 homotetramer

Target Details

	might provide the millimolar level of Ca2+ required for hair cuticular barrier formation. S100A3 / S100E is a unique member of the Ca2+-binding S100 protein family with the highest cysteine content and affinity for Zn2+. S100A3 / S100E binds both calcium and zinc. S100A3 / S100E probably binds 2 zinc ions per molecule. It may be involved in calcium-dependent cuticle cell differentiation and hair shaft formation. S100A3 plays an important role in calcium-dependent processes leading to hair shaft formation. S100A3 / S100E is a unique protein among all members of the calcium-binding S100 family, is specifically expressed at the inner endocuticle of human hair fibers. Upon hair damage, S100A3 / S100E is released from hair fibers and possibly destabilizes the hair tissue architecture. Synonym: S100E
Molecular Weight:	55.3 kDa
UniProt:	P33764
Pathways:	S100 Proteins

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, 20 % glycerol, 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.

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