Datasheet for ABIN7319043

SUMO2 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	SUMO2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUMO2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SUMO2 Protein (His Tag)
Sequence:	Met 1-Gly93
Characteristics:	Recombinant Human Small Ubiquitin-Related Modifier 2 is produced by our E.coli expression system and the target gene encoding Met1-Gly93 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	SUMO2
Alternative Name:	SUMO2 (SUMO2 Products)
Background:	Background: Small Ubiquitin-Related Modifier 2 (SUMO2) is an Ubiquitin-like protein that belongs to the ubiquitin family with SUMO subfamily. It is a family of small, related proteins that

Target Details

	can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation. SUMO2 can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptidebond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric SUMO2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. Synonym: Small Ubiquitin-Related Modifier 2, SUMO-2, HSMT3, SMT3 homolog 2, SUMO-3, Sentrin-2, Ubiquitin-Like Protein SMT3A, Smt3A, SUMO2, SMT3A, SMT3H2
Molecular Weight:	13.0 kDa
Pathways:	Methionine Biosynthetic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 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.