

Recombinant Human NAIP Protein (60-345 aa), His-SUMO-tagged

Cat. No. NAIP-1004H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NAIP Protein (60-345 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cancer. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	60-345 aa
Description	Anti-apoptotic protein which acts by inhibiting the activities of CASP3, CASP7 and CASP9. Can inhibit the autocleavage of pro-CASP9 and cleavage of pro-CASP3 by CASP9. Capable of inhibiting CASP9 autoproteolysis at 'Asp-315' and decreasing the rate of auto proteolysis at 'Asp-330'. Acts as a mediator of neuronal survival in pathological conditions. Prevents motor-neuron apoptosis induced by a variety of signals. Possible role in the prevention of spinal muscular atrophy that ses to be caused by inappropriate persistence of motor-neuron apoptosis: mutated or deleted forms of NAIP have been found in individuals with severe spinal muscular atrophy. Acts as a sensor component of the NLRC4 inflammasome that specifically recognizes and binds needle protein CprI from pathogenic bacteria C.violaceum. Association of pathogenic bacteria proteins drives in turn drive assbly and activation of the NLRC4 inflammasome, promoting caspase-1 activation, cytokine production and macrophage pyroptosis. The NLRC4 inflammasome is activated as part of the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	innate immune response to a range of intracellular bacteria such as <i>C.violaceum</i> and <i>L.pneumophila</i> .
Form	Tris-based buffer, 50% glycerol
Molecular Mass	48.6 kDa
AA Sequence	EAKRLKTFVITYEPYSSWIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLPIDH KRFHPDCGFLLNKDVGNIAKYDIRVKNLKSRLRGGKMRYQEEEARLASFRNWPFYV QGISPCVLSEAGFVFTGKQDTVQCFCSCGGCLGNWEEGDDPWKEHAKWFPKCEFL RSKKSSEEITQYIQSYKGFVDITGEHFVNSWVQRELPMASAYCNDISIFAYEELRLDSF KDWPRESAVGVAALAKAGLFYTGIKDIVQCFCSCGGCLEKWQEGDDPLDDHTRCFP NCPFL
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

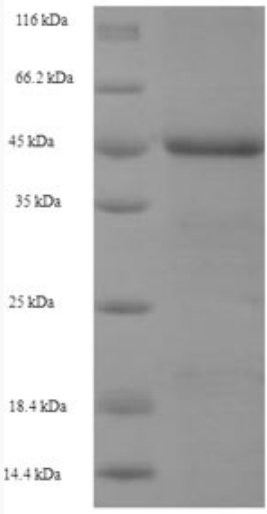
GENE INFORMATION

Gene Name	NAIP NLR family, apoptosis inhibitory protein [<i>Homo sapiens</i>]
Official Symbol	NAIP

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Synonyms	NAIP; NLR family; NLRB1; BIRC1; psiNAIP; FLJ18088; FLJ42520; FLJ58811;
Gene ID	4671
mRNA Refseq	NM_004536
Protein Refseq	NP_004527
MIM	600355
UniProt ID	Q13075
 (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	