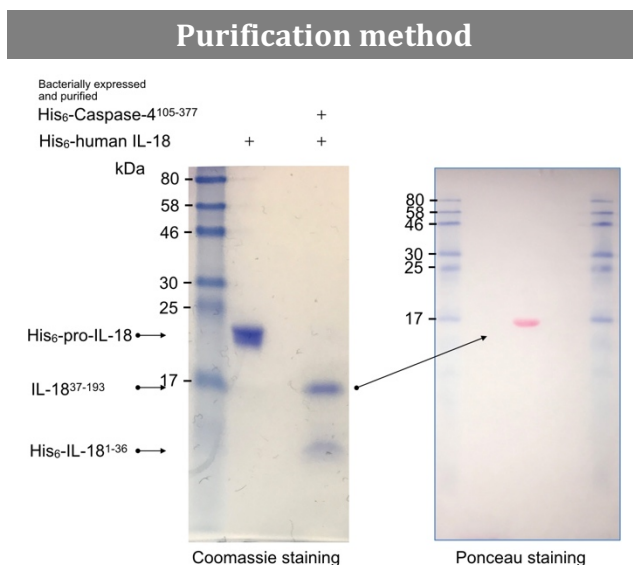


## Recombinant human Interleukin-18 (IL-18) (37-193) protein

<b>Category</b>	protein and peptide
<b>Catalog No.</b>	P-I-001
<b>Product information</b>	
<b>Product</b>	Recombinant protein of human IL-18 <sup>37-193</sup>
<b>Source</b>	<i>E. coli</i>
<b>Purification method</b>	Bacterially expressed and purified full-length human IL-18 was cleaved by active caspase-4 <sup>105-377</sup> . The N-terminal Tyr of the IL-18 neoepitope was confirmed by Edman degradation sequencing.
<b>UniProt ID</b>	Q14116
<b>Synonyms</b>	IGIF, IL1F4
<b>Gene ID</b>	3606
<b>Lot No.</b>	001
<b>Concentration</b>	1 mg/mL
<b>Buffer</b>	0.2 μm filtered solution in PBS, pH7.4
<b>Purity</b>	>95%, by SDS-PAGE
<b>Storage</b>	Store at -80°C.

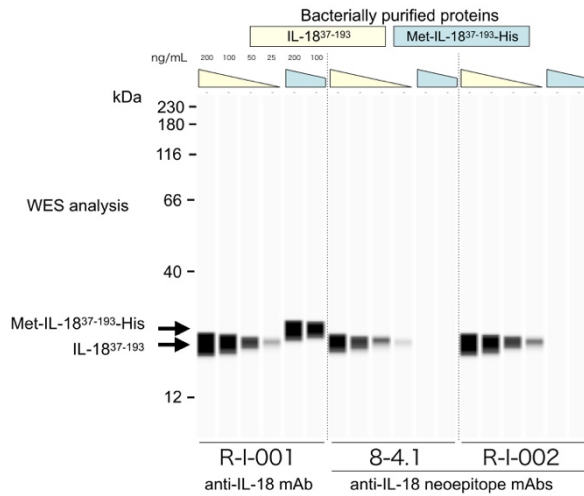


### Purification method.

IL-18 and caspase-4<sup>105-377</sup> were expressed in *E. coli*, and purified using Ni-NTA agarose. A mixture of these proteins (IL-18: Caspase-4<sup>105-377</sup> =10:1) was incubated and then run through a Ni-NTA agarose column. The flow-through was collected as IL-18<sup>37-193</sup>.

The N-terminal Tyr of IL-18<sup>37-193</sup> was confirmed by Edman degradation sequencing.

**Capillary Western immunoassay (WES)**

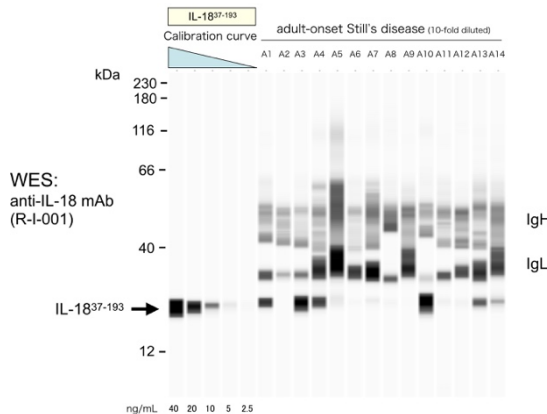


**Characterization of novel mAbs against the neopeptide of human IL-18 cleaved by inflammatory caspase-1/4**

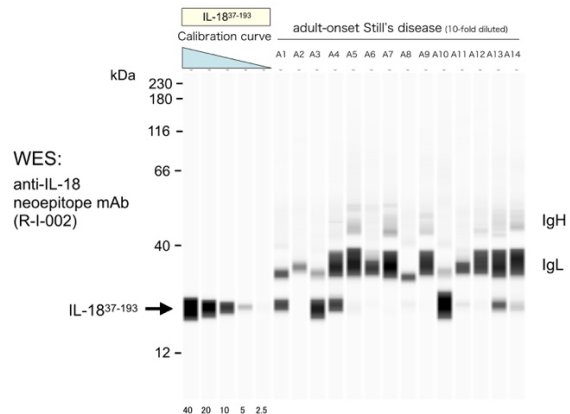
Capillary Western immunoassay (WES) of serial dilutions of bacterially purified IL-18 protein cleaved by caspase-4 (IL-18<sup>37-193</sup>) (Catalog # P-I-001) and Met-IL-18<sup>37-193</sup> with the newly generated neopeptide mAb (Catalog # R-I-002, right panel) and anti-IL-18 mAb (Catalog # R-I-001, left panel).

WES is a registered trademark of ProteinSimple.

**Capillary Western immunoassay (WES)**



**Capillary Western immunoassay (WES)**



**Background**

This gene encodes a member of the interleukin-1 (IL-1) family of cytokines. In addition to its role in the inflammatory response to microbes, recent studies implicate IL-18 as an important factor in human autoimmune, autoinflammatory, allergic, neurological and metabolic diseases. Similar to IL-1 $\beta$ , pro-IL-18 is processed by inflammatory caspase-1 or caspase-4 to yield mature, active form (IL-18<sup>37-193</sup>).

**References for recombinant human IL-18<sup>37-193</sup> protein (P-I-001)**

PMID:	30615852	Journal:	Archives of Biochemistry and Biophysics
		IF (2017):	3.118
Title:	Generation and characterization of antagonistic anti-human interleukin (IL)-18 monoclonal antibodies with high affinity: Two types of monoclonal antibodies against full-length IL-18 and the neopeptide of the inflammatory caspase-cleaved active IL-18		