

Epitope peptide of human IL-18 neoepitope mAb R-I-002

Category protein and peptide
Catalog No. P-I-003

Product information

Sequence [H]-Y-F-G-K-L-E-S-K-C-[OH]
human IL-18³⁷⁻⁴⁴ with an additional C-terminal Cys

UniProt ID Q14116

Synonyms IGIF, IL1F4

Gene ID 3606

Lot No. 001

Size 1 mg

Condition a lyophilized powder

Purity >95%, by MS analysis

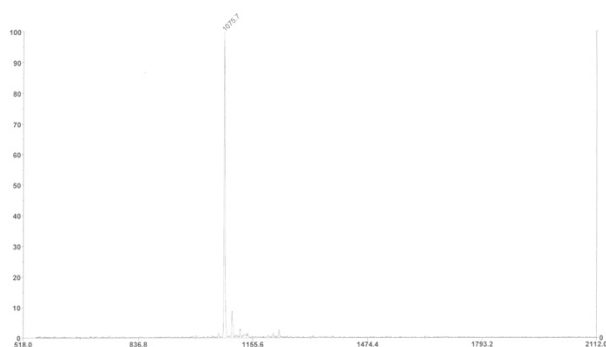
Storage Store at room temperature in a desiccator upon receipt.
Storage in buffer is NOT recommended.

For up to one week, you can store peptides in solution at 4°C.

For short term storage (up to one months), solubilize in buffer and aliquot, then store frozen at -20°C to avoid freeze-thaw cycles.

For long term storage -80°C is recommended.

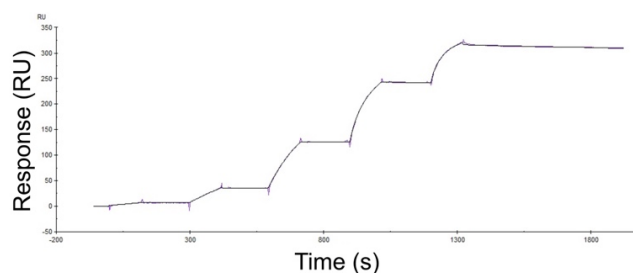
Mass spectrometry



Surface Plasmon Resonance analysis

$$K_D = 1.9 \times 10^{-10} \text{ (M)}$$

$$k_a = 2.1 \times 10^5 \text{ (1/Ms)}, k_d = 4.0 \times 10^{-5} \text{ (1/s)}$$



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 β , pro-IL-18 is processed by inflammatory caspase-1 or caspase-4 to yield mature, active form (IL-18³⁷⁻¹⁹³).

References for IL-18 epitope peptide of R-I-001 (P-I-002)

PMID:	30615852	Journal:	Archives of Biochemistry and Biophysics
		IF (2020):	4.013
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 neoepitope of the inflammatory caspase-cleaved active IL-18		