PRODUCT SPECIFICATIONS

Name
Recombinant IL-6, 50 µg

Description
Recombinant human interleukin-6 antigen is produced by E.coli expression system and the target gene encoding Pro29–Met212 is expressed. Predicted molecular weight: 21 kDa.

Amino acid sequence
PVPPGDSKDVAPHRQPLTSERIDQQRYILDGISALRKETCNKSNMCESSKEALAEENNLNP
KMAEKDCGCFQSGNEETCLVIIITGLEFEVYLQNRFSSEEQARAVQMSKVLIGFLQKKA
KNLDAITTPDPTTNASLTLQRAQNLQWLDMTTHLILRSFKEFLQSSLRALRQM

Production host
E.coli

Product code
710015

Product formulation
Lyophilized

Product buffer
20 mM Hac-NaAc, pH 5.0, 150 mM NaCl

Reconstitution
Reconstitute lyophilized protein with 100 µl of deionized water

Storage at
-20 °C

Analyte description
IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is relevant to many disease processes such as diabetes, atherosclerosis, depression, Alzheimer’s Disease, systemic lupus erythematosus, cancer, and rheumatoid arthritis. There is an interest in developing anti–IL-6 agents as therapy against many of these diseases. The first such is tocilizumab which has been approved for rheumatoid arthritis.

Product concentration
0.5 mg/ml when reconstituted with 100 µl of deionized water

Purity
SDS-PAGE > 90 %