



# Recombinant Pig Interleukin-27 subunit alpha (IL27)

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| <b>Product Code</b>      | CSB-YP725497PI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Abbreviation</b>      | IL27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>           | 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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                                                               |
| <b>Uniprot No.</b>       | Q5S1V9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen Species</b> | Sus scrofa (Pig)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sequence</b>          | FP RPPGRPPLSL QELQREFKVS LHLARKLLSE VRVQARHFAE<br>SHLPGVNLDL LPLGEQLPNV SLNFQAWRGL SDPERLCFLS MTLRPFHTLL<br>GGLGSQGFWT SSERMQLWAI RLDLRDLQQH LRFQVLAAGF NLPGQEEEEEN<br>EAGRELLPGA PGGPSKPAAQ VSWPRLLYTY QLLHSLELVL SRAMRDFLLL<br>SRAGNPAPAL GFPTPSSPP                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Target Names</b>      | IL27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Names</b>     | Recommended name: Interleukin-27 subunit alpha Short name= IL-27 subunit alpha Short name= IL-27-A Short name= IL27-A Alternative name(s): p28                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Expression Region</b> | 29-239                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Length</b>    | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Target Details</b>    | This protein is one of the subunits of a heterodimeric cytokine complex. This protein is related to interleukin 12A (IL12A). It interacts with Epstein-Barr virus induced gene 3 (EBI3), a protein similar to interleukin 12B (IL12B), and forms a complex that has been shown to drive rapid expansion of naive but not memory CD4(+) T cells. The complex is also found to synergize strongly with interleukin 12 to trigger interferon gamma (IFNG) production of naive CD4(+) T cells. The biological effects of this cytokine are mediated by the class I cytokine receptor (WSX1/TCRR). |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final                                                                                                                                                                                                                                                          |



concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.