

**Recombinant Human IL27Ra / TCCR / WSX1 Protein (Fc tag)**

**Cat.NO.: TP08030**

3th Edition

**Synonyms:**CRL1;IL-27RA;IL27R;TCCR;WSX1;zcytor1

**Description:**The interleukin-27 receptor is a type I cytokine receptor for interleukin-27. It is a heterodimer composed of the interleukin 27 receptor, alpha subunit and glycoprotein 130. WSX-1/IL-27R, a class I cytokine receptor that is homologous to the  $\beta 2$  chain of the IL-12R in both sequence and structure, is highly expressed by resting/naive CD4+ T cells and CD8+ T cells. WSX-1/IL-27R belongs to the IL-6/IL-12 family of cytokines and induced proliferation of naive CD4(+) T cells and the generation of a Th1-type adaptive immune response. WSX-1/IL-27R functions as a receptor for IL27. IL-27 not only contributes to the development of an adaptive immune response through its action on CD4(+) T cells, it also directly acts on cells of the innate immune system. WSX-1/IL-27R requires IL6ST/gp130 to mediate signal transduction in response to IL27. This signaling system acts through STAT3 and STAT1. It is involved in the regulation of Th1-type immune responses. IL-27R also appears to be involved in innate defense mechanisms. IL27RA is essential for transcriptional activation of STAT1 and for augmenting the induction of T-bet expression during initiation of Th1 cell differentiation.

**Form:**PBS

**Molecular Weight:**79 kDa

**Sequences:**Met 1-Arg 514

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.