



Recombinant Protein Technical Manual
Recombinant Mouse IL-23 Receptor/IL-23R Protein
(Fc Tag)
RPES1299

Product Data:

Product SKU: RPES1299

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q8K4B4

Protein Information:

Molecular Mass: 67.3 kDa

AP Molecular Mass: 9010 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Interleukin-23 receptor; IL23r; IL-23 receptor; IL-23R; interleukin 23 receptor

Immunogen Information:

Sequence: Gly24-Asp372

Background:

Interleukin 23 receptor (IL23R), a heterodimer of the IL12 receptor β 1 (IL12R β 1) and IL12R β 2, is a type I cytokine receptor for IL23. IL23R is comprised of two subunits, the IL12R β 1 subunit, which is shared with several cytokines, and a subunit that is unique to IL-23. IL23, after binding to IL23R, activates memory T cells and mediates pro-inflammatory activities in part by the production of IL17 through activation of TH17 lymphocytes. IL23R is expressed on T cells, NK cells, dendritic cells, and macrophages. In fact, polymorphisms of the IL23R gene were reported to be associated with susceptibility to inflammatory diseases and autoimmune diseases such as psoriasis, multiple sclerosis, Graves's opthalmopathy and inflammatory bowel diseases. The IL23R is known to be critically involved in the carcinogenesis of different malignant tumor.