IL-3RA, Human, Recombinant

Cat. No. : PCK075

General Information

Synonyms	Interleukin-3 Receptor subunit alpha;IL-3 Receptor subunit alpha;IL-3R subunit alpha;IL-3 R-alpha;IL-3RA
Species	Human
Expression host	Human Cells
Sequence	Thr19-Arg305
Accession	P26951
Mol mass	60 kDa
Expiration date	12 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

CD123, also known as Interleukin-3 Receptor subunit alpha, belongs to the type I Cytokine Receptor family. In mouse, there are two classes of high-affinity IL3 Receptors. One contains an IL3-specific beta subunit and the other contains the beta subunit also shared by high-affinity IL5 and GM-CSF Receptors. CD123 stimulates the proliferation and differentiation of hemopoietic cells including the pluripotent hematopoietic stem cells as well as various lineage-committed cells. CD123 is a heterodimer consisting of an alpha and a beta subunit. The alpha subunit alone binds IL-3 with low affinity. The beta subunit does not bind IL-3 by itself but is required for the high-affinity binding of IL-3 to the heterodimeric Receptor complex.

SDS-PAGE

