Datasheet

Cat. No. P1250

Recombinant Human Interleukin-3 Receptor alpha/CD123 Fc Chimera Protein, Insect Cells Derived

Information

Gene ID	
Accession #	
Alternate Names	
Source	Insect Cell
M.Wt	Approximately 60.3 kDa on SDS-PAGE under reducing conditions, containing 529 amino acids.
AA Sequence	AGMGTKEDPN PPITNLRMKA KAQQLTWDLN RNVTDIECVK DADYSMPAVN NSYCQFGAIS LCEVTNYTVR VANPPFSTWI LFPENSGKPW AGAENLTCWI HDVDFLSCSW AVGPGAPADV QYDLYLNVAN RRQQYECLHY KTDAQGTRIG CRFDDISRLS SGSQSSHILV RGRSAAFGIP CTDKFVVFSQ IEILTPPNMT AKCNKTHSFM HWKMRSHFNR KFRYELQIQK RMQPVITEQV RDRTSFQLLN PGTYTVQIRA RERVYEFLSA WSTPQRFECD QEEGANTRAW RIEGRMDEPK SSDKTHTCPP CPAPEFEGAP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PTPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGK
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.0, with 0.02 % Tween-20.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Testing in progress.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10μg	100μg	500μg
Recombinant Human Interleukin-3 Receptor alpha/CD123 Fc Chimera Protein, Insect Cells Derived	10μg	100μg	500μg
Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution			

Quality Control

Purity	> 95 % by SDS-PAGE analyses.
Endotoxin	Less than 0.01 EU/μg of rHuIL-3 Rα/CD123-Fc as determined by LAL method.

Description

Interleukin-3 receptor (IL-3 R) is a heterodimeric structure composed of a 70 kDa IL-3 R alpha subunit (IL-3 R α or CD123) and a 120-140 kDa IL-3 R beta subunit (IL-3 R β or CD131). IL-3R α is a glycoprotein member of the hematopoietic receptor superfamily. IL-3 R α binds IL-3 with relatively low affinity. In the presence of IL-3 R β, however, IL-3 R alpha has a much higher affinity for IL-3.Emerging studies demonstrate that CD123, the IL-3 R α, is highly expressed in leukemic stem cells (LSCs), while not normal hematopoietic stem cells (HSCs), and associates with treatment response, minimal residual disease (MRD) detection and prognosis. Furthermore, CD123 is an important marker for the identification and targeting of LSCs for refractory or relapsed leukemia.

Reference

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