IL-3R alpha/CD123 Protein, Human (Biotinylated, HEK293, Fc-Avi)

Cat. No.:	HY-P72349
Synonyms:	Interleukin-3 receptor subunit alpha; IL-3 receptor subunit alpha; IL-3R subunitalpha; IL-3R-alpha; IL-3RA; CD123
Species:	Human
Source:	HEK293
Accession:	P26951 (T19-R305)
Gene ID:	3563
Molecular Weight:	80-100 kDa

PROPERTIES

AA Sequence	T K E D P N P P I T N L R M K A K A Q Q L T W D L N R N V T D I E C V K D A D Y S M P A V N N S Y C Q F G A I S L C E V T N Y T V R V A N P P F S T W I L F P E N S G K P W A G A E N L T C W I H D V D F L S C S W A V G P G A P A D V Q Y D L Y L N V A N R R Q Q Y E C L H Y K T D A Q G T R I G C R F D D I S R L S S G S Q S S H I L V R G R S A A F G I P C T D K F V V F S Q I E I L T P P N M T A K C N K T H S F M H W K M R S H F N R K F R Y E L Q I Q K R M Q P V I T E Q V R D R T S F Q L L N P G T Y T V Q I R A R E R V Y E F L S A W S T P Q R F E C D Q E E G A N T R A W R
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IL-3R alpha/CD123 Protein serves as a cell surface receptor for IL3 and is expressed on hematopoietic progenitor cells, monocytes, and B-lymphocytes, exerting control over the production and differentiation of hematopoietic progenitor cells into lineage-restricted cells. Upon ligand stimulation, it rapidly undergoes heterodimerization with IL3RB, leading to the phosphorylation and activation of effector proteins, including JAK2 and PI3K. These activated pathways play a crucial role

	in signaling cell proliferation and differentiation. JAK2 activation further initiates a STAT5-mediated transcriptional program, contributing to the regulation of cellular functions. The receptor interacts with its ligand, IL3, and forms a heterodimer consisting of an alpha and a beta subunit. Notably, the beta subunit is shared among the receptors for IL3, IL5, and GM-CSF.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA