

FITC-Labeled IL-3R alpha/CD123 Protein, Human (HEK293, His)

Cat. No.:	HY-P701285
Synonyms:	IL3R; IL3RA; IL-3Ra; IL-3R-alpha; IL3RAY; IL3RX; IL3RY; CD123 antigen; CD123; hIL3Ra; hIL-3Ra; MGC34174; IL-3 R alpha
Species:	Human
Source:	HEK293
Accession:	P26951 (T19-R305)
Gene ID:	3563
Molecular Weight:	50-60 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 μ m filtered solution of PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 1 year, protect from light. 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.
------------	---

Caution: Product has not been fully validated for medical applications. For research use only.

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