

IL-3R alpha/CD123 Protein, Canine (283a.a, HEK293, His)

Cat. No.:	HY-P78634
Synonyms:	IL3R; IL3RA; IL-3Ra; IL-3R-alpha; IL3RAY; IL3RX; IL3RY; CD123 antigen; CD123; hIL3Ra; hIL-3Ra; MGC34174; IL-3 R alpha
Species:	Canine
Source:	HEK293
Accession:	XP_038305195.1 (S33-D315)
Gene ID:	609293
Molecular Weight:	42-50 kDa

PROPERTIES

AA Sequence	<pre> SEKDPDSP I K NLRMEPGSRR LTWDL SGNVS EIKCFINSKY ITKAIDSR Y C QFYVLP LCEV KNFTI SVKQD PPFSTGLQYV PRGAEGK P A A AARGLD C W V H DVDFLTCSWE VGRAAPGDVQ YRL YWRDLKA YREQEC P R Y E ANNRGVHVRC RFDDVSRLQR HIQFWVNG T S RRS G I P C S D L CVELPEIERL SPPHITATCN KSY S M M E W K V LSHFNHRFLY ELQIQKGTDP ASTEKLYENH FVIYNPGNYV AKLKVQGF FR KDWSEWSAPQ LFVCDPKDEH RRD </pre>
Biological Activity	Immobilized IL-3R α at 1 μ g/mL (100 μ L/well) can bind Biotinylated IL-3 protein. The ED ₅₀ for this effect is 44.84 ng/mL, corresponding to a specific activity is 2.23 \times 10 ⁴ Unit/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 μ m filtered solution of PBS, pH 7.4.
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. 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	The IL-3R alpha/CD123 Protein is a crucial member of the type I cytokine receptor family, specifically categorized within the
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Type 5 subfamily, emphasizing its pivotal role in mediating cellular responses to various cytokines. As part of this receptor family, IL-3R alpha/CD123 likely shares conserved structural and functional features with related receptors, underscoring its involvement in transducing signals from specific type I cytokines. The classification within the type I cytokine receptor family underscores its specific designation within the broader context of cell signaling, providing insights into its unique contributions to hematopoiesis and immune regulation. The study of IL-3R alpha/CD123 contributes to our understanding of its role in physiological processes, offering potential applications in therapeutic interventions for conditions related to hematopoietic disorders and immune dysregulation. Further exploration of IL-3R alpha/CD123's role holds promise for enhancing our knowledge of its contributions to both normal cellular function and pathological conditions.

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

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