

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-5 α , Human

Catalog Number: BK0248-1mg

Source: CHO

Quantity: 1mg

Description:

Interleukin-5 Receptor Alpha (IL-5RA), also known as CD125, belongs to the Type 5 subfamily in the type I cytokine receptor family. It is composed of a ligand-specific alpha subunit and a signal-transducing beta subunit shared by the receptors for IL-3 and GM-CSF. IL-5RA is mainly expressed on eosinophils and basophils, and plays important roles in the immunobiology of these cell types. It is reported that when stimulated by IL-5, eosinophils down-regulate surface IL-5RA expression to attenuate their IL-5 responsiveness. Elevated IL-5 production may induce immune cell infiltration which leads to allergic inflammation. IL-5RA has also been reported to promote the differentiation of basophils and B cells.

Molecular Weight:

53-56 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 <0.2 ng/ml, measured in a cell proliferation assay using TF-1 cells in the presence of 1 ng/ml human IL-5.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

DLLPDEKISLLPPVNFTIK-
VTGLAQVLLQWKPNPDQEQRNVNLEYQVKIN-
APKEDDYETRITESKCVTILHKGF-
SASVRTILQNDHSLASSWASAEHAPPG-
SPGTSIVNLTCTT-
NTTEDNYSRLRSYQVSLHCTWLVTG-
DAPEDTQYFLYRYGSWTEECQEYSKDTLGR-
NIACWFPRTFILSKGRDWLAVLVNGSSKH-
SAIRPFDQLFALHAI-
DQINPLNVTAIEGTRLSIQWEKPVSAFPIH-
CFDYEVKIHNRNGYLQIEKLMTNAFISI-
IDDLISKYDVQVRAAVSS-
MCREAGLWSEWSQPIYVGNDE

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant Human Interleukin-5 Receptor Alpha remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Interleukin-5 Receptor Alpha should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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