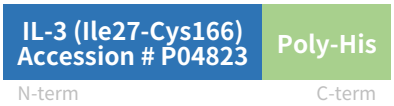
Rev03
Update: Dec,14,2021

DATASHEET

IL-3, His, Rat

Cat. No.: Z03196

Product Introduction

Species	Rat
Protein Construction	
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 8.0 ng/ml, measured in a cell proliferation assay using NF S-60 cells.
Expression System	CHO
Apparent Molecular Weight	22-34 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : Interleukin-3 (IL-3), also known as MCGF, Multi-CSF, HCGF and P-cell stimulation factor, belongs tothe α-helixfamily of hematopoietic cytokines. It is produced by activated T-cells, mast cells and natural killer cells. IL-3 binds to the IL-3 receptor alpha subunit and recruits the signal-transducing common beta chain. IL-3induced signal transduction results in the survival, differentiation and proliferation of a variety of immune cells, such as macrophages, neutrophils, megakaryocytes, mast cells and hematopoietic stem cells. IL-3 often acts synergistically with other cytokines, such as IL-7, EPO, GM-CSF and IL-6, to exert its simulative function.

Synonyms : IL3; interleukin 3; IL-3; MCGF; MULTI-CSF; Mast cell growth factor; P-cell stimulation factor; HCGF

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