



GM-CSF/IL-3 Fusion Protein (PIXY321), human recombinant (rHuGM-CSF/IL3 FP)

Catalog No: 94955
Lot No: XXXXX
Source: *E. coli*
Synonyms: PIXY321, GMCSF/ IL3

Background

Synergism of IL3 together with GMCSF causes a rapid rise in neutrophils due to GMCSF and a slower rise in platelets due to IL3 which has strong stimulated effect on hematopoietic cells. The analog of GMCSF/IL3 is PIXY321. Results indicate that PIXY321 can stimulate multilineage hematopoiesis in vivo and enhance neutrophil and platelet recovery following chemotherapy and bone marrow transplantation (BMT). These results suggest that PIXY321 elicits the biological effects of both its component cytokines and represents a novel means of delivering two independent but interactive cytokines in combination.

Description

GMCSF/IL3 fusion protein human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain having a Mw of 30 kDa. PIXY321 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized after extensive dialysis against 10 mM PBS, pH 7.4±0.1 and 0.1% BSA.

Solubility

It is recommended to reconstitute the lyophilized PIXY321 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized PIXY321 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PIXY321 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Activity

The ED50 as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) is <0.2 ng/ml, corresponding to a specific activity of 5,000,000 IU/mg.

Usage

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