

PIXY321 Human

Description: GMCSF/IL3 fusion protein Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain having a Mw of 30kDa. PIXY321 is purified by proprietary chromatographic techniques.

Catalog #: CYPs-367

Synonyms: PIXY321, GMCSF/ IL3.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 95.0% as determined by 1. Analysis by RP-HPLC. 2. Analysis by SDS-PAGE.

Formulation:

The protein was lyophilized after extensive dialysis against 10mM PBS, pH= 7.4

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

Introduction:

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.

Biological Activity:

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

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