

Erythropoietin

Description

Erythropoietin (Epoetin alfa) is a human hematopoietic growth hormone produced in the kidney that is involved in stimulating the production of red blood cells (erythrocytes) in the bone marrow.

Erythropoietin transports oxygen to the body's cells. It is secreted as a response to low saturation levels of oxygen in the blood that is filtered through the kidneys.

Recombinant Erythropoietin is expressed in mammalian cells into which the human erythropoietin has been introduced. Erythropoietin is an acidic single-chain, 165 amino acids glycoprotein of approximately 34,000 Dalton (34 kDa) molecular weight. The product contains the identical amino acid sequence of isolated natural erythropoietin.

Indications

- Anemia, secondary to renal failure
- Anemia, secondary to cancer chemotherapy
- Anemia, secondary to zidovudine therapy
- Anemia, symptomatic
- Prevention of blood transfusion during surgery