

CSF1, 33-255aa, Human, His-tag, Baculovirus (Bioactivity Validated)

Cat.NO.: TP01737

3th Edition

Synonyms: Macrophage colony-stimulating factor 1, CSF1, M-CSF, MCSF, Lanimostim

Description: CSF1, also known as macrophage colony-stimulating factor 1, is a hematopoietic growth factor that is the primary regulator of the survival, proliferation, differentiation and function of mononuclear phagocytes. It is a four alpha-helical bundle cytokine and its active form is found extracellularly as a disulfide linked homodimer. This protein plays important roles in innate immunity, cancer and inflammatory diseases, including systemic lupus erythematosus, arthritis, atherosclerosis and obesity. In several conditions, activation of macrophages involves a CSF1 autocrine loop. In addition, secreted and cell-surface isoforms of CSF1 can have differential effects in inflammation and immunity. Recombinant human CSF1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol

Molecular Weight: 26.1kDa (231aa) 28-40kDa (SDS-PAGE under reducing conditions.)

Sequences:

Purity: > 95% by HPLC

Concentration: 0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.