

Recombinant Human GM-CSF

Product reference: DDX-C-rhuGM-CSF

Description

Granulocyte-macrophage colony-stimulating factor (GM-CSF), also known as **colony stimulating factor 2 (CSF2)**, is a monomeric glycoprotein secreted by macrophages, T cells, mast cells, NK cells, endothelial cells and fibroblasts that functions as a cytokine.

Like IL-3, GM-CSF is a multipotential growth factor, stimulating proliferation of progenitor cells from more than one hematopoietic lineage. GM-CSF induces myeloid progenitor cells from bone marrow to form colonies containing macrophages and granulocytes in a semisolid medium. GM-CSF stimulates the development of neutrophils and macrophages and the proliferation and development of early erythroid, megakaryocytic and eosinophilic progenitor cells. GM-CSF, in combination with IL4 was demonstrated to induce *in vitro* generation of dendritic cells from monocytes (*Caux C et al, Nature. 1992 Nov 19; 360 (6401):258-61*).

DDX-C-rhuGM-CSF is a bioactive protein intended for use in cell culture, differentiation studies and functional assays.

Source: Recombinant human GM-CSF produced in mammalian cells (glycosylated) according a proprietary process

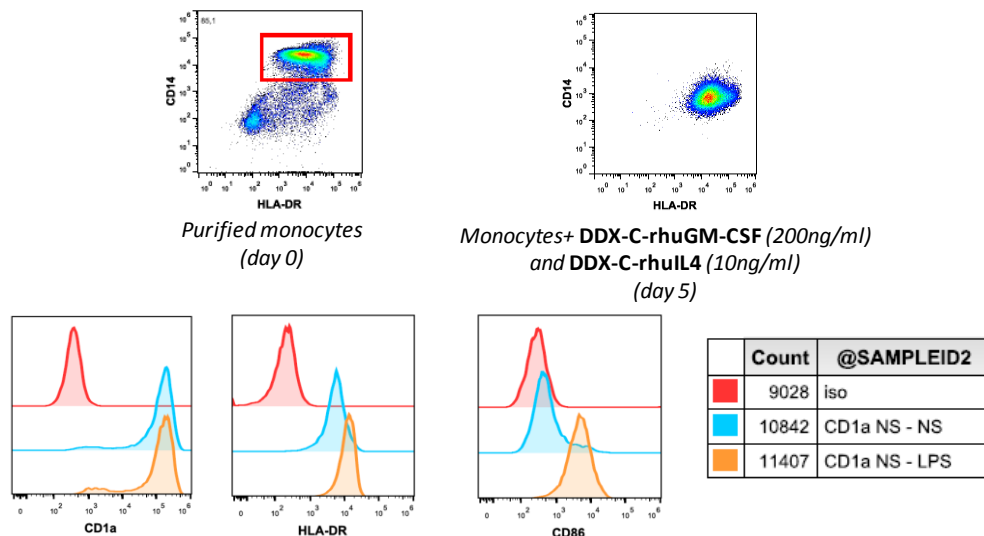
Format: lyophilized

Specific activity : 2×10^6 U/mg

The ED₅₀ is determined by proliferation assay using TF-1 cells (*Kitamura et al, 1989, J.Cell.Physiol.140:323-334*)

Application tested:

DDX-C-rhuGM-CSF supports the generation of monocyte-derived dendritics cells *in vitro*



Monocytes isolated from PBMC were cultured 5 days in the presence of DDX-C-rhuGM-CSF (200ng/ml) and DDX-C-rhuIL4 (10ng/ml) and stimulated (LPS) or not (NS) with LPS(100ng/ml) for 24h. Facs staining of CD1a, HLA-DR and CD86 are shown.

Available sizes:

Reference	Quantity	Format
DDX-C-rhuGM-CSF-4	400µg	lyophilized

Storage:

Shipped in dry ice. Store at -80°C.

Usage recommendation:

Resuspension in sterile complete culture medium
 Optimal dilution should be determined for each application
 Avoid freeze/thaw cycles

Not for use in Humans. For research purpose only