

Product Datasheet

Recombinant GM-CSF, Human (P.pastoris-expressed) (orb1494613)

Description	Human Granulocyte Macrophage Colony Stimulating Factor (hGM-CSF), a hematopoietic growth factor, is mainly involved in granulopoiesis and monocytopoiesis. It is produced by T-cells and macrophages in response to antigens, and by endothelial cells and fibroblasts following induction of various cytokines [1]. A monomeric protein of 127 amino acids with six glycosylation sites and two intra disulfide bonds [2,3], glycosylated and non-glycosylated hGM-CSFs show similar biological activities [4]. Other than its connection to the growth and development of granulocytes and macrophages, it is also indispensable for the proliferation of erythroid and megakaryocytic cells [5]. Recombinant Human Granulocyte Macrophage Colony Stimulating Factor (rhGM-CSF) produced in P. pastoris is a glycosylated polypeptide. A fully biologically active molecule, rhGM-CSF has a molecular mass of 26-32 kDa analyzed by SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques at GenScript.
Endotoxins	< 1.0 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against 10 mM PB, pH 7.0.
Form/Appearance	Lyophilized after extensive dialysis against 10 mM PB, pH 7.0.
Storage	Lyophilized recombinant human Granulocyte Macrophage Colony Stimulating Factor (rhGM-CSF) remains stable up to 12 months at -80°C from date of receipt. Upon reconstitution, rhGM-CSF should be stable up to 4 weeks at 4°C or up to 6 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH ₂ O at 100 μg/ml.
Protein Sequence	MAPARS PSPSTQPWEH VNAIQEARRL LNLSRDAAE MNETVEVISE MFDLQEPTCL QTRLELYKQG LRGLSLTKLKG PLTMMASHYK QHCPPTPETS CATQIITFES FKENLKDFLL VIPFDCWEPV QE
Purity	> 95 % as analyzed by SDS-PAGE.

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Source	P. pastoris
MW	26-32 kDa, observed by SDS-PAGE.
Expiration Date	6 months from date of receipt.

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