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Datasheet for ABIN4986887 GM-CSF ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	GM-CSF (CSF2)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.02-1.0 ng/mL
Minimum Detection Limit:	0.02 ng/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (citrate), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Natural and recombinant Rat GM-CSF Ligand
Sensitivity:	7 pg/mL
Material not included:	 Microplate reader. Pipettes and pipette tips. EP tube Deionized or distilled water.

Target Details

Target:

GM-CSF (CSF2)

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Target Details	
Alternative Name:	GM-CSF (CSF2 Products)
Background:	GM-CSF was initially characterized as a factor that can support the in vitro colony formation of
	granulocytemacrophage progenitors. It is also a growth factor for erythroid, megakaryocyte,
	and eosinophil progenitors. GM-CSF is produced by a number of different cell types (including T $$
	cells, B cells, macrophages, mast cells, endothelial cells, fibroblasts, and adipocytes) in
	response to cytokine or inflammatory stimuli. On mature hematopoietic cells, GM-CSF is a
	survival factor for and activates the effector functions of granulocytes,
	monocytes/macrophages, and eosinophils (1, 2). GM-CSF promotes a Th1 biased immune
	response, angiogenesis, allergic inflammation, and the development of autoimmunity (3-5). It
	shows clinical effectiveness in ameliorating chemotherapyinduced neutropenia, and GM-CSF
	transfected tumor cells are utilized as cancer vaccines (6, 7). The 22 kDa glycosylated GM-CSF,
	similar to IL-3 and IL-5, is a cytokine with a core of four bundled α helices(8-10). Mature rat GM-
	CSF shares 56-69 % amino acid sequence identity with canine, feline, human, mouse, and
	porcine GM-CSF. GM-CSF exerts its biological effects through a heterodimeric receptor
	complex composed of GM-CSF Ra/CD116 and the signal transducing common β chain
	(CD131) which is also a component of the highaffinity receptors for IL-3 and IL-5 (11, 12). In
	addition, GM-CSF binds a naturally occurring soluble form of GM-CSF Ra (13). Rat GM-CSF is
	active on mouse cells, although mouse GM-CSF is only weakly active on rat cells (14, 15).
Pathways:	JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	Detection Wavelength: 450 nm
Sample Volume:	20 µL
Assay Time:	3 h
Plate:	Pre-coated
Restrictions:	For Research Use only

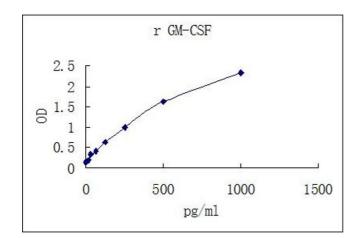
Handling

Storage:

4°C

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Images



ELISA

Image 1.

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