

CD83 Protein, Rat (HEK293, His)

Cat. No.:	HY-P75375
Synonyms:	B-cell activation protein; CD83 antigen; hCD83; CD83; BL11
Species:	Rat
Source:	HEK293
Accession:	B2GV95 (M22-A134)
Gene ID:	361226
Molecular Weight:	Approximately 27-35 kDa due to the glycosylation.

PROPERTIES

AA Sequence	M R E V T V A C S E T A D L P C T A P W D P Q L S Y T V S W A K V S E S G N E R L E L P E S K Q N S S V E A P K K R P Y S L T I Q N T T I C S A G T Y R C A L Q E L G G Q R N F S G T V V L K V T G C P K E A T E S T F R K Y R A
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of human monocyte-derived dendritic cells. When 5×10^4 cells/well are added to Rat CD83 coated plates (5 $\mu\text{g/mL}$, 100 $\mu\text{L/well}$), approximately 68.76% adhered after 30 minutes at 37° C.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g/mL}$ in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD83 Protein is suggested to play a significant role, potentially contributing to antigen presentation or mediating cellular interactions that ensue following lymphocyte activation. The specific mechanisms through which CD83 influences these processes, particularly in the context of immune responses, remain to be fully elucidated. As a monomer, CD83 may participate in distinct molecular events that impact antigen presentation and cellular interactions, highlighting its potential as a key regulatory element in modulating immune responses. In-depth investigations are needed to unravel the intricacies
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of CD83's function and its implications in the orchestration of immune processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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