

Human CD83, C-His Tag Protein

HA211203



Product name:	Human CD83, C-His Tag
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human CD83 protein (Q01151) (Thr 20-Ala 143) was expressed with a His tag at the C-terminus.

Background: CD83 (Cluster of Differentiation 83) is a human protein encoded by the CD83 gene. The membrane-bound form of CD83 consists of an extracellular V-type immunoglobulin-like domain, a transmembrane domain and a cytoplasmic signaling tail. A free soluble form consists of the immunoglobulin-like domain alone. Membrane-bound CD83 is expected to form trimers. Soluble CD83 is able to assemble into dodecameric complexes. The CD83 gene is located on human chromosome 6p23 and mouse chromosome 13. In humans, a promoter 261 bp upstream consists of five NF- κ B and three interferon regulatory factor binding sites, reflecting the involvement of CD83 in inflammation, as well as binding sites for the aryl hydrocarbon receptor. The latter also occur in an enhancer sequence located 185 bp downstream, inside the second intron, and may suggest negative regulation of transcription by microbial metabolites produced in the gut.

Purity: >95% as determined by SDS-PAGE.

Endotoxin: Less than 1.0 EU per μ g by the LAL method.

Fragment region: CD83 (20-143)

Source: HEK293

Accession: Q01151

Predicted molecular mass: 15.9 kD

Formulation: Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution: Reconstitute at 250 μ g/ml in sterile water.

Storage: Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

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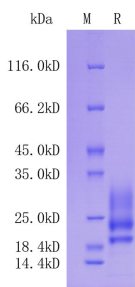


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.