

CD164 Protein, Human (HEK293, His)

Cat. No.:	HY-P75617
Synonyms:	Sialomucin core protein 24; MUC-24; Endolyn; MGC-24; CD164
Species:	Human
Source:	HEK293
Accession:	Q04900 (D24-D162)
Gene ID:	8763
Molecular Weight:	40-110 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	CD164 is a sialomucin that potentially holds a pivotal role in hematopoiesis, facilitating the adhesion of CD34(+) cells to the stroma while negatively regulating the proliferation of CD34(+)CD38(lo/-) cells. This protein is implicated in the modulation of umbilical cord blood CD133+ cell migration through the CXCL12/CXCR4 axis. Additionally, CD164 is associated with prostate cancer metastasis and the infiltration of cancer cells into the bone marrow. It exerts a positive influence on myogenesis by enhancing CXCR4-dependent cell motility, promoting myoblast migration, and facilitating myoblast fusion into myotubes. The protein exists as a homodimer (isoform 4) and interacts with CXCR4 in these cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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