

CD276/B7-H3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7639
Synonyms:	rMuB7-H3, His; CD276 antigen; CD276; B7 homolog 3; B7-H3; CD276
Species:	Mouse
Source:	HEK293
Accession:	Q8VE98 (V29-F244)
Gene ID:	102657
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	<pre> VEVQVSEDPV VALVDTDATL RCSFSPEPGF SLAQLNLIWQ LTDTKQLVHS FTEGRDQGSA YSNRTALFPD LLVQGNASLR LQRVRVTDEG SYTCFVSIQD FDSA AVSLQV AAPYSKPSMT LEPNKDLRPG NMVTITCSSY QGYPEAEVFW KDGQGVPLTG NVTTSQMANE RGLFDVHSV L RVVLGANGTY SCLVRNPVLQ QDAHG SVTIT GQPLTFHHHH HH </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 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 μg/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	<p>Interaction of B7-H3 and its T cell counter-receptor induces proliferation of both CD4+ and CD8+ T cells and enhances the induction of cytotoxic T cells (CTLs). B7-H3 has the four conserved cysteine residues that thought to be involved in the formation of V- and C-like Ig domains^[1].</p> <p>Human B7-H3 binds to activated T cells and costimulates their proliferation and, most potently, IFN-γ production. Mouse B7-H3 does not bind significantly to CD4 or CD8 cells from C57BL/6 lymph node cells^[2].</p>
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REFERENCES

- [1]. A I Chapoval, et al. B7-H3: a costimulatory molecule for T cell activation and IFN-gamma production. Nat Immunol. 2001 Mar;2(3):269-74.
- [2]. Mingyi Sun, et al. Characterization of Mouse and Human B7-H3 Genes1. J Immunol 2002; 168:6294-6297.
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Caution: Product has not been fully validated for medical applications. For research use only.

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