

## CD276

### Recombinant Human B7-H3/CD276:Mouse Fc Chimera

<b>Catalog No.</b>	CRH042	<b>Quantity:</b>	100 µg
<b>Alternate Names:</b>	4Ig-B7-H3, B7-H3, B7H3, B7RP-2		
<b>Description:</b>	<p>CD276 (B7-H3) is a member of the B7/CD28 superfamily of costimulatory molecules serving as an accessory modulator of T cell response. B7 family molecules, which are expressed on antigen-presenting cells and display extracellular regions containing immunoglobulin (Ig) variable (V)- and constant (C)-like domains, are known to modulate T cell receptor (TCR)-mediated T cell activation by providing co-signals that are either stimulatory or inhibitory. B7-H3 provides a stimulatory signal to T cells. However, recent studies suggest a negative regulatory role for B7-H3 in T cell responses. B7-H3 inhibited T cell proliferation mediated by antibody to T cell receptor or allogeneic antigen-presenting cells. B7-H3 is a negative regulator that preferentially affects T(H)1 responses. B7-H3 may play an important role in muscle-immune interactions, providing further evidence of the active role of muscle cells in local immunoregulatory processes. Recently, B7-H3 expression has also been found in a variety of different human cancers, including prostate cancer, clear cell renal cell carcinoma (ccRCC), non-small-cell lung cancer (NSCLC), pancreatic cancer, gastric cancer, ovarian cancer, colorectal cancer (CRC) and urothelial cell carcinoma. B7-H3 was expressed in some human cancers and correlated with poor outcome of cancer patients.</p> <p>The extracellular domain of human CD276 [B7-H3] (aa 29-245) is fused to the N-terminus of the Fc region of mouse IgG2a.</p>		
<b>Gene ID:</b>	80381		
<b>Protein Accession No:</b>	NP_079516.1		
<b>Source:</b>	CHO cells		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution containing PBS.		
<b>Purity:</b>	≥98% (SDS-PAGE)		
<b>Endotoxin Level:</b>	<0.06 EU/µg purified protein as determined by LAL test (Lonza).		
<b>Biological Activity:</b>	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells		
<b>Reconstitution:</b>	Reconstitute with 100 µl (1 mg/ml) sterile water. Add 1X PBS to the desired protein concentration.		
<b>Storage &amp; Stability:</b>	Store at 4°C upon arrival and at -20°C for long term. Lyophilized product is stable for at least 1 year after receipt when stored at -20°C. After reconstitution, prepare aliquots and store at -20°C. Stable for up to 3 month at -20°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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