

**DESCRIPTION**

<b>Source</b>	Mouse myeloma cell line, NS0-derived mouse Skint2/B7S3 protein		
	Mouse Skint2/B7S3 (Ser22-Lys239) Accession # NP_001272892.1	IEGRMDP	Mouse IgG <sub>2a</sub> (Glu98-Lys330)
	N-terminus		C-terminus
<b>N-terminal Sequence</b>	Ser22		
<b>Analysis</b>			
<b>Structure / Form</b>	Disulfide-linked homodimer		
<b>Predicted Molecular Mass</b>	52 kDa		

**SPECIFICATIONS**

<b>SDS-PAGE</b>	48-64 kDa, under reducing conditions
<b>Activity</b>	Measured by its ability to inhibit IL-2 secretion by mouse T cells in the presence of anti-CD3. The ED <sub>50</sub> for this effect is 0.5-5.0 µg/mL.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl. See Certificate of Analysis for details.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 200 µg/mL in PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**DATA**

<p><b>Bioactivity</b></p> <p><b>Recombinant Mouse Skint2/B7S3 (µg/mL)</b></p>	<p>Recombinant Mouse Skint2/B7S3 Fc Chimera (Catalog # 10279-B7) inhibits IL-2 secretion by mouse T cells in the presence of Rat Anti-Mouse CD3 Monoclonal Antibody (Catalog # MAB4841). The ED<sub>50</sub> for this effect is 0.5-5.0 µg/mL.</p>	<p><b>SDS-PAGE</b></p> <p>1 µg/lane of Recombinant Mouse Skint2/B7S3 Fc Chimera (Catalog # 10279-B7) was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing bands at 48-64 kDa and 95-130 kDa, respectively.</p>
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**BACKGROUND**

B7S3 (B7 superfamily member 3) is a member of the B7 superfamily which play a major role in maintaining the appropriate threshold of T cell activation. B7S3 has two isoforms expressed in both lymphoid and non-lymphoid tissues (1). The mature extracellular domain (ECD) of mouse B7S3 contains an IgV-like domain, and a half IgC-like domain (1). Within the ECD, mouse B7S3 shares 89% amino acid sequence identity with rat B7S3. A putative receptor for B7S3 is constitutively expressed on APCs and induced on T cells upon activation. Mouse B7S3 mFc chimera inhibited CD4 and CD8 T cell proliferation and IL-2 production, as well as effector cytokine production. Interestingly, the B7S3 genes in mouse and human have distinct structural features (1).

**References:**

1. Yang, Y. *et al.* (2007) *J. Immunol.* **178**:3661.