

Recombinant Mouse Skint2/B7S3 Fc Chimera

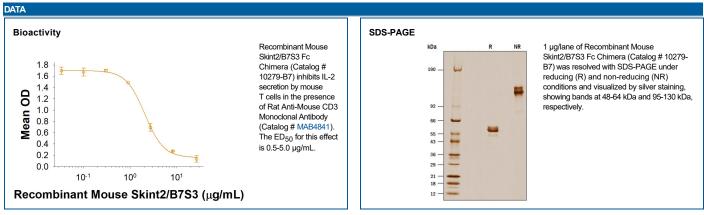
Catalog Number: 10279-B7

| Source | Mouse myeloma cell line, NS0-derived mouse Skint2/B7S3 protein | | | |
|--------|-------------------------------------------------------------------|---------|-------------------------------------------|--|
| | Mouse Skint2/B7S3 (Ser22-Lys239) Accession # NP_001272892.1 | IEGRMDP | Mouse IgG _{2a} (Glu98-Lys330) | |

| N-terminal Sequence Analysis | Ser22 |
|---------------------------------|----------------------------|
| Structure / Form | Disulfide-linked homodimer |
| Predicted Molecular | 52 kDa |

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

| PREPARATION AND STORAGE | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Reconstitution | Reconstitute at 200 μg/mL in PBS. | |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. | |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution. | |



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.

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