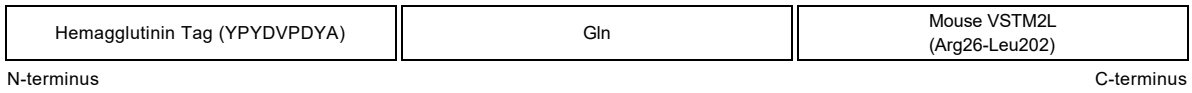
Recombinant Mouse VSTM2L HA-tag

Catalog Number: 2152-VT

DESCRIPTION

Source

Chinese Hamster Ovary cell line, CHO-derived mouse VSTM2L protein



N-terminal Sequence Analysis	Tyr
Structure / Form	Monomer
Predicted Molecular Mass	21 kDa

SPECIFICATIONS

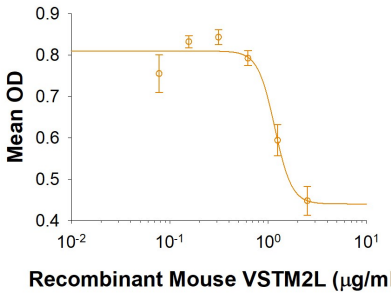
SDS-PAGE	19-25 kDa, reducing conditions
Activity	Measured by its ability to inhibit anti-CD3 antibody induced IFN-gamma secretion by human peripheral blood mononuclear cells (PBMC). The ED_{50} for this effect is 0.5-3 µg/mL.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 100 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.

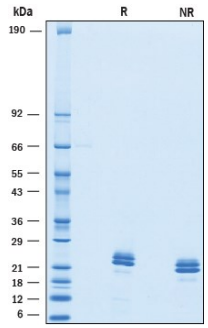
DATA

Bioactivity



Recombinant Mouse VSTM2L (Catalog # 2152-VT) inhibits anti-CD3 antibody induced IFN-gamma secretion by human peripheral blood mononuclear cells (PBMC). The ED_{50} for this effect is 0.5-3 µg/mL.

SDS-PAGE



2 µg/lane of Recombinant Mouse VSTM2L was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 19-25 kDa.

BACKGROUND

V-set and transmembrane domain-containing protein 2-like protein (VSTM2L), also known as C20orf102, is a 22 kDa extracellular protein belonging to the Immunoglobulin superfamily. VSTM2L contains an N-terminal signal peptide (aa 1-25), and an Ig-like domain (aa 41-158) with a disulfide bond between Cys 62 and Cys142. VSTM2L is expressed primarily in the central nervous system, but is also detected in serum and secreted in cultured cells (1). It has been found to be an antagonist of the neuroprotective peptide Humanin (1). Human VSTM2L has a 94% sequence identity to mouse homolog. VSTM2L functions as an inhibitory receptor in macrophages (2). Our in house data show that VSTM2L inhibits human T cell activation, including anti-CD3 induced IFN-gamma secretion.

References:

1. Rossini L. *et al.* (2011) FASEB J. **25**:1983.
2. Yu, Z. *et al.* (2001) J. Biol. Chem. **276**:23816.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449