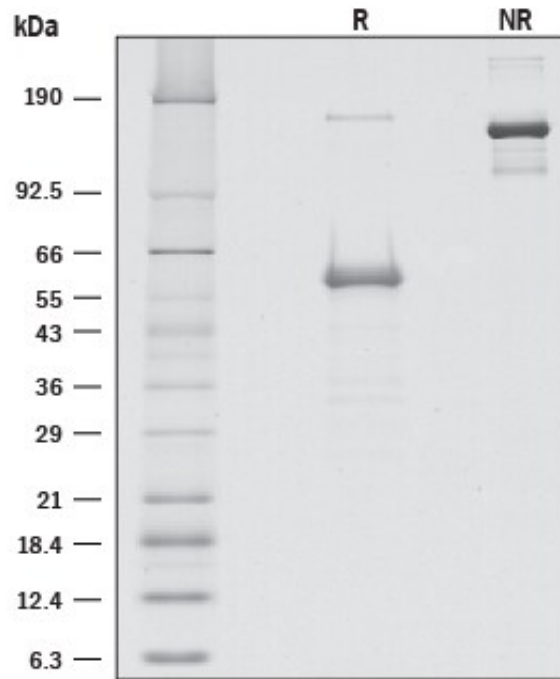


Recombinant Human BTN3A1 Protein (Phe31-Gly254), C-Fc-tagged

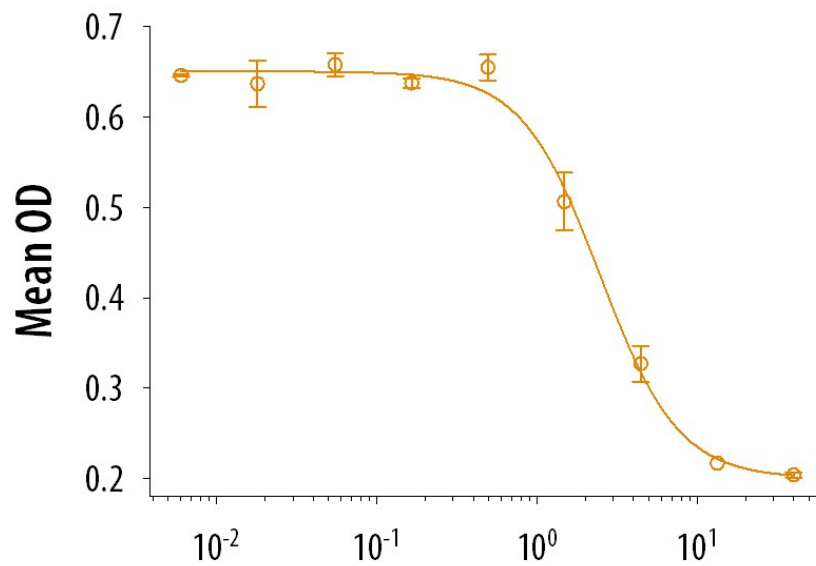
Product Information

Cat	IMP-10178
Official Symbol	BTN3A1
Product Overview	Recombinant human CD277/BTN3A1 protein (Phe31-Gly254) with a human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in human embryonic kidney cell.
Description	The butyrophilin (BTN) genes are a group of major histocompatibility complex (MHC)-associated genes that encode type I membrane proteins with 2 extracellular immunoglobulin (Ig) domains and an intracellular B30.2 (PRYSPRY) domain. Three subfamilies of human BTN genes are located in the MHC class I region: the single-copy BTN1A1 gene (MIM 601610) and the BTN2 (e.g., BTN2A1; MIM 613590) and BTN3 (e.g., BNT3A1) genes, which have undergone tandem duplication, resulting in 3 copies of each.
Expression System	HEK293
Species	Human
Tag	C-Fc
Predicted N Terminal	Phe31
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Molecular Mass	Predicted Molecular Mass: 51 kDa SDS-PAGE: 54-62 kDa, reducing conditions
Protein length	Phe31-Gly254
Bio-activity	Measured by its ability to inhibit anti-CD3 antibody induced IL-2 secretion in human T lymphocytes. The ED50 for this effect is typically 1-5 µg/mL.
Endotoxin	
Purity	>90%, by SDS-PAGE with silver staining.
Notes	Disulfide-linked homodimer
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in PBS.

SDS-PAGE



Bioactivity-ELISA 1



Recombinant Human CD277/BTN3A1 Fc Chimera (µg/mL)

Measured by its ability to inhibit anti-CD3 antibody induced IL-2 secretion in human T lymphocytes. The ED50 for this effect is typically 1-5 µg/mL.