

Product datasheet for **TP727780**

BTN2A2 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Butyrophilin Subfamily 2 Member A2/BTN2A2 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gln33-Val237
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Butyrophilin Subfamily 2 Member A2 is produced by our Mammalian expression system and the target gene encoding Gln33-Val237 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	10385
UniProt ID:	Q8WVV5
Summary:	Butyrophilin 2A2 (BTN2A2) is a widely expressed type I transmembrane glycoprotein that functions as a negative regulator of immune responses. Mature human Butyrophilin 2A2 consists of a 233 amino acid (aa) extracellular domain with two immunoglobulin-like domains, a 21 aa transmembrane segment, and a 237 aa cytoplasmic domain. Alternative splicing generates additional isoforms of human Butyrophilin 2A2 that lack the first, second, or both Iglike domains as well as isoforms with substitutions and deletions in the cytoplasmic region. Within the immune system, Butyrophilin 2A2 is expressed on thymic epithelial cells, naïve B cells, splenic NK cells, dendritic cells, and peritoneal macrophages and is up-regulated with cell activation. Butyrophilin 2A2 inhibits T cell proliferation and activation and enhances the development of FoxP3+ regulatory T cells. Its up-regulation in the hippocampus is associated with schizophrenia.



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