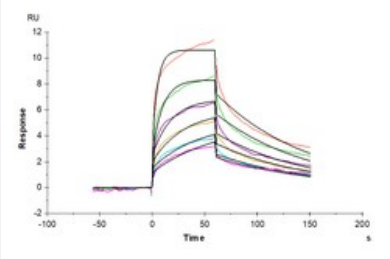
Bioactive HuPro®

BTN2A1 (Human) Recombinant Protein

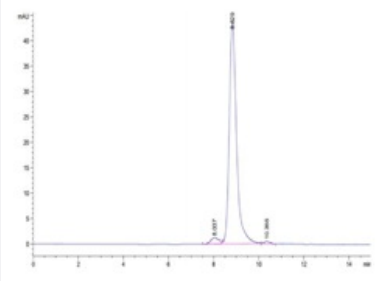
Catalog # P9741 Size 100 ug

Applications



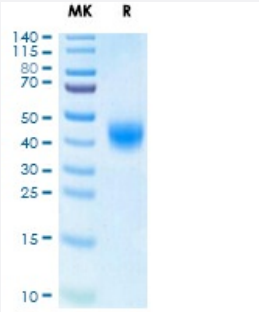
Surface Plasmon Resonance

Human BTN2A1, His Tag immobilized on CM5 Chip can bind Human CD209, His Tag with an affinity constant of 0.12 uM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human BTN2A1 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human BTN2A1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human BTN2A1 (Q7KYR7-1, 29 a.a. - 248 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Sequence	QFIVVGPTDPILATVGENTTLRCHLSPEKNAEDMEVRWFRSQFSPAVFVYKGGRERTEEQMEEY RGRTTFVSKDISRGSVALVIHNITAQENGTYRCYFQEGRSYDEAILHLVVAGLGSKPLISMRGHEDG GIRLECISRGWYPKPLTVWRDPYGGVAPALKEVSMPDADGLFMVTTAVIIRDKSVRNMSCSINNTL LGQKKESVIFIPESFMPSVSPLA
Host	Human
Theoretical MW (kDa)	25.65
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The affinity constant of 0.12 uM as determined in SPR assay (Biacore T200). See testing image for detail.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human BTN2A1 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human BTN2A1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

  Human BTN2A1, His Tag immobilized on CM5 Chip can bind Human CD209, His Tag with an affinity constant of 0.12 uM as determined in SPR assay (Biacore T200).

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Info — BTN2A1

Entrez GeneID	11120
Protein Accession#	Q7KYR7-1
Gene Name	BTN2A1
Gene Alias	BK14H9.1, BT2.1, BTF1, DJ3E1.1, FLJ36567
Gene Description	butyrophilin, subfamily 2, member A1
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the BTN2 subfamily of genes, which encode proteins belonging to the b utyrophilin protein family. The gene is located in a cluster on chromosome 6, consisting of seven g enes belonging to the expanding B7/butyrophilin-like group, a subset of the immunoglobulin gene superfamily. The encoded protein is an integral plasma membrane B box protein involved in lipid, fatty-acid and sterol metabolism. [provided by RefSeq
Other Designations	butyrophilin BTF1

Copyright © 2023 Abnova Corporation. All Rights Reserved.