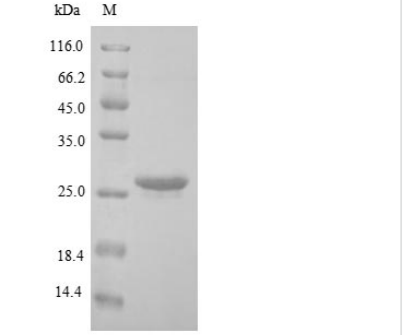
Recombinant Human BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like (BNIP3L)

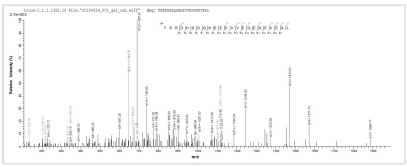
Product Code	CSB-YP002767HU
Relevance	Induces apoptosis. Interacts with viral and cellular anti-apoptosis proteins. Can overcome the suppressors BCL-2 and BCL-XL, although high levels of BCL-XL expression will inhibit apoptosis. Inhibits apoptosis induced by BNIP3. Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates to mitochondrial protein catabolic process (also named MALM) leading to the degradation of damaged proteins inside mitochondria. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix. May function as a tumor suppressor.
Abbreviation	Recombinant Human BNIP3L protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O60238
Alias	Adenovirus E1B19K-binding protein B5 BCL2/adenovirus E1B 19 kDa protein-interacting protein 3A NIP3-like protein X Short name: NIP3L
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNSSNGNDNGN GKNGGLEHVPSSSSIHNGDMEKILLDAQHESGQSSSRGSSHCDSPSPQEDG QIMFDVEMHTSRDHSSQSEEEVVEGEKEVEALKKSADWVSDWSSRPENIPPK EFHFRHPKRSVSLSMRKSGAMKKGGIFSAEFLKVFIPSLFLSHVLALGLGIYIGK RLSTPSASTY
Research Area	Cancer
Source	Yeast
Target Names	BNIP3L
Protein Names	Recommended name: BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-likeAlternative name(s): Adenovirus E1B19K-binding protein B5 BCL2/adenovirus E1B 19 kDa protein-interacting protein 3A NIP3-like protein X Short name= NIP3L
Expression Region	1-219aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at

	4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	25.9kDa
Protein Length	Full Length

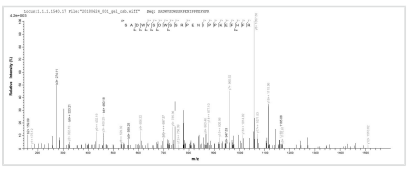
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP002767HU could indicate that this peptide derived from Yeast-expressed Homo sapiens (Human) BNIP3L.



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Description

Just like other recombinant proteins, the production of this recombinant Human BNIP3L protein began with appropriate cDNA and PCR methods, and then the BNIP3L expression plasmids were built. Following sequence determination of the constructs, plasmids were transformed into Yeast for the expression of the recombinant Human BNIP3L protein. N-terminal 6xHis tag was used in the process. And we finally get the protein of interest with purity of 90%+.

BNIP3L (also called BNIP3A, BNIP3H, NIX) is a gene encoding a protein called BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like (also known as adenovirus E1B19K-binding protein B5, BCL2/adenovirus E1B 19 kDa protein-interacting protein 3A, NIP3-like protein X, NIP3L) in human. The protein encoded by BNP3L gene is a mitochondrial protein from the outer membrane and belongs to the BH3-only protein from the BCL2 family. BNIP3L was initially recognized as a proapoptotic protein with milder efficacy in inducing apoptosis compared to other proteins in this family.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final

	concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.