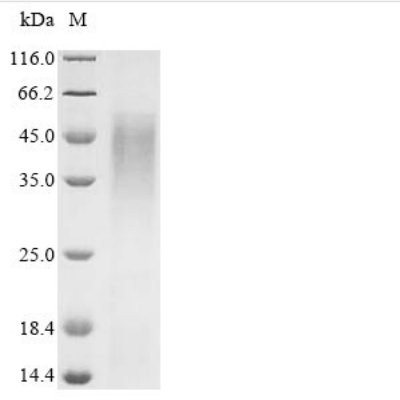
Recombinant Mouse BCL2/adenovirus E1B 19 kDa protein-interacting protein 3 (Bnip3)

Product Code	CSB-CF002766MO
Abbreviation	Recombinant Mouse Bnip3 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.	O55003
Product Type	Transmembrane Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MSQSGEENLQGSWVELHFSNGNGSSVPASVSIYNGDMEKILLDAQHESGRSS SKSSHCDSPPRSQTPQDTNRAEIDSHSFGEKNSTLSEEDYIERRREVESILKKN SDWIWDWSSRPENIPPKEFLFKHPKRTATLSMRNTSVMKKGGIFSADFLKVFL PSLLLSHLLAIGLGIYIGRRLTTSTSTF
Research Area	Cancer
Source	in vitro E.coli expression system
Target Names	Bnip3
Protein Names	Recommended name: BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
Expression Region	1-187aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	23.8 kDa
Protein Length	Full Length
Image	 (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description	This recombinant MouseBnip3 protein is an in vitro E.coli (cell-free) expressed Full Length protein. Its purity is 85%+ determined by SDS-PAGE. Cell-free protein expression is the in vitro synthesis of a protein using translation-compatible extracts of whole cells. In principle, whole-cell extracts contain all the macromolecules and components needed for transcription, translation, and even post-translational modification. These components include RNA polymerase, regulatory protein factors, transcription factors, ribosomes, and tRNA. When supplemented with cofactors, nucleotides, and the specific gene template, these extracts can synthesize proteins of interest in a few hours. Bnip3, a pro-apoptotic BH3-only protein of the Bcl-2 family, is involved in apoptosis, programmed necrosis, autophagy, and mitophagy in the process of cells and tissues exposed to hypoxia or ischemia. In addition to involvement in cell death and metastasis-associated processes, Bnip3 can also regulate different metabolic pathways, such as lipid metabolism, glycolysis, and mitochondrial bioenergetics. Bnip3 also plays a critical role in carcinogenesis. Upregulated expression of Bnip3 has been reported in lung, prostate, cervical tumors, and breast cancers. Increased Bnip3 expression has been linked to the aggressive tumor phenotype and a dismal prognosis.
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.