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BNIP3 Protein (AA 1-187) (Strep Tag)



Overview

Quantity:	1 mg
Target:	BNIP3
Protein Characteristics:	AA 1-187
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BNIP3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	PPKEFLFKHP KRTATLSMRN TSVMKKGGIF SADFLKVFLP SLLLSHLLAI GLGIYIGRRL TTSTSTF
	PPRSQTPQDT NRAEIDSHSF GEKNSTLSEE DYIERRREVE SILKKNSDWI WDWSSRPENI
Sequence:	MSQSGEENLQ GSWVELHFSN GNGSSVPASV SIYNGDMEKI LLDAQHESGR SSSKSSHCDS

system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- · These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	BNIP3
Alternative Name:	Bnip3 (BNIP3 Products)
Background:	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3,FUNCTION: Apoptosis-inducing
	protein that can overcome BCL2 suppression. May play a role in repartitioning calcium between
	the two major intracellular calcium stores in association with BCL2 (By similarity). Involved in
	mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to
	mitochondrial damage, participates in 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
	may play a critical role in the translocation of lysosomal proteins from the cytoplasm to the
	mitochondrial matrix (By similarity). 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 (By similarity). Plays an important role in the
	calprotectin (S100A8/A9)-induced cell death pathway (By similarity). {ECO:0000250}.
Molecular Weight:	21.0 kDa
UniProt:	055003
Pathways:	Autophagy, Brown Fat Cell Differentiation
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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	modifications.
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	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
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Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)