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Datasheet for ABIN3084565 NEIL2 Protein (AA 2-332) (His tag)

Image



Overview

Quantity:	1 mg
Target:	NEIL2
Protein Characteristics:	AA 2-332
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEIL2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	PEGPLVRKFH HLVSPFVGQQ VVKTGGSSKK LQPASLQSLW LQDTQVHGKK LFLRFDLDEE
	MGPPGSSPTP EPPQKEVQKE GAADPKQVGE PSGQKTLDGS SRSAELVPQG EDDSEYLERD
	APAGDAGRWL RVSFGLFGSV WVNDFSRAKK ANKRGDWRDP SPRLVLHFGG GGFLAFYNCQ
	LSWSSSPVVT PTCDILSEKF HRGQALEALG QAQPVCYTLL DQRYFSGLGN IIKNEALYRA
	GIHPLSLGSV LSASRREVLV DHVVEFSTAW LQGKFQGRPQ HTQVYQKEQC PAGHQVMKEA
	FGPEDGLQRL TWWCPQCQPQ LSEEPEQCQF S
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Human NEIL2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	to ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).

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Product Details	
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE. 2. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	NEIL2
Alternative Name:	NEIL2 (NEIL2 Products)
Background:	Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Has

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	DNA glycosylase activity towards 5-hydroxyuracil and other oxidized derivatives of cytosine with a preference for mismatched double-stranded DNA (DNA bubbles). Has low or no DNA glycosylase activity towards thymine glycol, 2-hydroxyadenine, hypoxanthine and 8-oxoguanine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates. {ECO:0000269 PubMed:12097317, ECO:0000269 PubMed:14522990, ECO:0000269 PubMed:15175427, ECO:0000269 PubMed:15339932}.
Molecular Weight:	37.6 kDa Including tag.
UniProt:	Q969S2
Pathways:	DNA Damage Repair
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:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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