

Datasheet for ABIN3077180 SMOX Protein (AA 1-555) (His tag)



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6 Images

Overview

Quantity:	1 mg
Target:	SMOX
Protein Characteristics:	AA 1-555
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMOX protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MHHHHHHQSC ESSGDSADDP LSRGLRRRGQ PRVVVIGAGL AGLAAAKALL EQGFTDVTVL</p> <p>EASSHIGGRV QSVKLGHATF ELGATWIHGS HGNPIYHLAE ANGLLEETTD GERSVGRISL</p> <p>YSKNGVACYL TNHGRRIKPD VVEEFSGLYN EVYNLTQEFF RHDKPVNAES QNSVGVFTR</p> <p>EVNRNIRNDP DDPEATKRLK LAMIQYLKV ESCSSSHSM DEVSLSAFGE WTEIPGAHHI</p> <p>IPSGFMRVVE LLAEGIPAHV IQLGKPVRCI HWDQASARPR GPEIEPRGEG DHNHDTGEGG</p> <p>QGGEPRGGR WDEDEQWSVV VECEDCELIP ADHVIVTVSL GVLKRQYTSF FRPGLPTEKV</p> <p>AAIHLRGIGT TDKIFLEFEE PFWGPECNSL QFVWEDEAES HTLTYPPELW YRKICGFDVL</p> <p>YPPERYGHVL SGWICGEEAL VMEKCDDEAV AEICTEMLRQ FTGNPNIPKP RRILRSWGS</p> <p>NPYFRGSYSY TQVGSSGADV EKLAKPLPYT ESSKTAPMQV LFSGEATHRK YYSTTHGALL</p> <p>SGQREARLI EMYRDLFQQG T</p>
Specificity:	N-terminal His-tag

Product Details

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human SMOX 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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This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount..

When you order this made-to-order protein you will only pay upon receipt 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:	<p>The protein is purified from the cleared cell lysate using EDTA and DTT resistant His-tag capture materials. Eluate fractions are analyzed by SDS-PAGE.</p> <p>Protein containing fractions are subjected to a second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</p>
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:	SMOX
Alternative Name:	SMOX (SMOX Products)
Background:	<p>Flavoenzyme which catalyzes the oxidation of spermine to spermidine. Can also use N(1)-acetylspermine and spermidine as substrates, with different affinity depending on the isoform (isozyme) and on the experimental conditions. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs. May contribute to beta-alanine production via aldehyde dehydrogenase conversion of 3-amino-propanal.</p>

Target Details

Molecular Weight: 62.8 kDa Including tag.

UniProt: [Q9NWM0](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 50 mM Hepes, pH 7.6; 150 mM NaCl, 1 mM EDTA

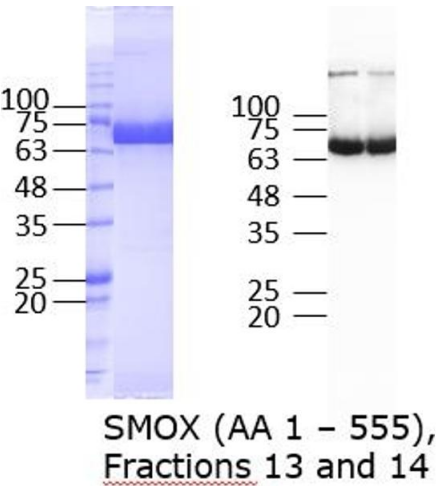
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images

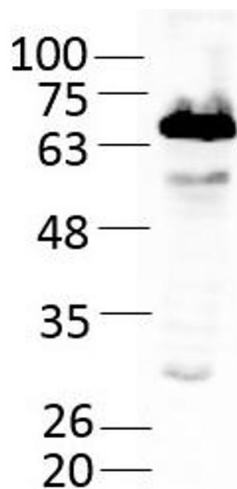


Western Blotting

Image 1.



Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Western Blotting

Image 3. SMOX (AA 1 - 555), Fraction 14

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3077180.