

## O-acyltransferase Protein, Tropaeolum majus (Cell-Free, S197A, His)

Cat. No.:	HY-P702390
Synonyms:	O-acyltransferase
Species:	Others
Source:	E. coli Cell-free
Accession:	Q8RX96 (M1-K518, S197A)
Gene ID:	/
Molecular Weight:	60.3 kDa

### PROPERTIES

#### AA Sequence

M A V A E S S Q N T	T T M S G H G D S D	L N N F R R R K P S	S S V I E P S S S G
F T S T N G V P A T	G H V A E N R D Q D	R V G A M E N A T G	S V N L I G N G G G
V V I G N E E K Q V	G E T D I R F T Y R	P S F P A H R R V R	E S P L S S D A I F
K Q S H A G L F N L	C I V V L I A V N S	R L I I E N L M K Y	G W L I D T G F W F
S S R S L G D W S I	F M C C L T L P I F	P L A A F I V E K L	V Q R N H I A E L V
A V L L H V I V S T	A A V L Y P V I V I	L T C D S V Y M S G	V V L M L F G C I M
W L K L V S Y A H T	S S D I R T L A K S	G Y K G D A H P N S	T I V S C S Y D V S
L K S L A Y F M V A	P T L C Y Q P S Y P	R S S C I R K G W V	V R Q F V K L I V F
I G L M G F I I E Q	Y I N P I V R N S K	H P L K G D F L Y A	I E R V L K L S V P
N L Y V W L C M F Y	S F F H L W L N I L	A E L L R F G D R E	F Y K D W W N A K T
V A E Y W K M W N M	P V H R W M V R H L	Y F P C L R N G I P	K E G A I I I A F L
V S G A F H E L C I	A V P C H V F K L W	A F I G I M F Q V P	L V L I T N Y L Q E
K F S N S M V G N M	I F W F I F C I L G	Q P M C V L L Y Y H	D L I N L K E K

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

#### Endotoxin Level

<1 EU/ $\mu$ g, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

#### Shipping

Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

The O-acyltransferase protein is implicated in glycerolipid metabolism, specifically playing a crucial role in triacylglycerol biosynthesis, a vital process within lipid metabolism. Triacylglycerols are essential molecules involved in energy storage and represent a key component of lipid droplets in cells. O-acyltransferases are enzymes responsible for catalyzing the acyl transfer reactions that contribute to the formation of triacylglycerols. By participating in these biosynthetic pathways, O-acyltransferases contribute to the regulation of lipid homeostasis and energy storage in cells.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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