

WWP2 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P77507
Synonyms:	NEDD4-like E3 ubiquitin-protein ligase WWP2; Atrophin-1-interacting protein 2; AIP2; WWP2
Species:	Human
Source:	Sf9 insect cells
Accession:	O00308 (M1-E870)
Gene ID:	11060
Molecular Weight:	Approximately 120 kDa

PROPERTIES

AA Sequence

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

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Solution

Formulation Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0, 10% Glycerol.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background

WWP2 Protein, functioning as an E3 ubiquitin-protein ligase, facilitates the transfer of ubiquitin from an E2 ubiquitin-conjugating enzyme to its targeted substrates. Notably, WWP2 engages in the polyubiquitination of POU5F1 through 'Lys-63'-linked conjugation, leading to the proteasomal degradation of POU5F1. In embryonic stem cells (ESCs), this ubiquitination is proposed to play a regulatory role in controlling the protein levels of POU5F1. Additionally, WWP2 ubiquitinates EGR2, promoting its proteasomal degradation, and in T-cells, this ubiquitination is implicated in inhibiting activation-induced cell death. Moreover, WWP2 targets SLC11A2 for ubiquitination, a process enhanced in the presence of NDFIP1 and NDFIP2. Furthermore, WWP2 ubiquitinates RPB1, leading to its proteasomal degradation. These diverse ubiquitination events underscore the regulatory versatility of WWP2 in modulating the stability and abundance of key proteins involved in various cellular processes.

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

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