

## USP46 Protein, Human/Mouse (sf9, SUMO)

Cat. No.:	HY-P77278
Synonyms:	Ubiquitin carboxyl-terminal hydrolase 46; Deubiquitinating enzyme 46; Usp46
Species:	Mouse
Source:	Sf9 insect cells
Accession:	P62069 (M1-E366)
Gene ID:	69727
Molecular Weight:	Approximately 64 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
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.

### DESCRIPTION

Background	USP46 protein, a deubiquitinating enzyme, is implicated in behavioral regulation, potentially through the modulation of GABA action. Its role may involve mediating the deubiquitination of GAD1/GAD67, as suggested by studies. Interestingly, USP46 exhibits minimal deubiquitinating activity on its own and relies on interaction with WDR48 to achieve high enzymatic activity. Contrary to its involvement in GABA-related processes, USP46 is not engaged in the deubiquitination of monoubiquitinated FANCD2, indicating specificity in its substrate interactions (By similarity). This multifaceted enzyme sheds light on the intricate regulatory mechanisms underlying behavior and neurotransmitter dynamics.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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