

## MATERIAL DATA SHEET

### Recombinant Human His10 USP47

#### Cat. # E-626

Ubiquitin carboxyl-terminal hydrolase 47 (USP47) is a C19 type peptidase with a predicted molecular weight of 157 kDa. The human protein shares 95% and 96% amino acid sequence identity with its mouse and rat orthologs, respectively. USP47 has been reported to play roles in inflammasome activation and colon cancer progression. This recombinant protein contains an n-terminal 10-His tag.

#### Product Information

<b>Quantity:</b>	50 µg
<b>MW:</b>	160 kDa
<b>Source:</b>	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human USP47 protein Contains an N-terminal 10-His tag
<b>Stock:</b>	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 150 mM NaCl, 1 mM TCEP
<b>Purity:</b>	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

#### Use & Storage

<b>Use:</b>	Recombinant Human USP47 is a Ubiquitin deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial concentration of 10-100 nM USP47 when using Ubiquitin-AMC (U-550) or Ubiquitin-Rhodamine (U-555) as a substrate.
<b>Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 24 months from date of receipt, -70 °C as supplied.</li> <li>• 3 months, -70 °C under sterile conditions after opening.</li> </ul>

#### Literature

##### References:

1. Palazon-Riquelme, P. et al. (2018) *EMBO Rep.* doi: 10.15252/embr.201744766
2. Yu, L. et al. (2019) *Cancer Letters* doi: 10.1016/j.canlet.2019.01.039

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