USP13, His-Tag, FLAG-Tag Recombinant

Catalog: 102018 Lot: 231114-A2

Product Information

Description: Recombinant human USP13 (ubiquitin carboxyl-terminal hydrolase 13), encompassing

amino acids 2-863(end). This construct contains an N-terminal His-tag (6xHis) and a

C-terminal FLAG-tag. This protein was affinity purified.

Background: USP13 (ubiquitin carboxyl-terminal hydrolase 13), also known as isopeptidase T 3 (ISOT-

3) is a DUB (deubiquitination) enzyme. It participates in multiple crucial cellular processes, such as autophagy, DNA damage response, ERAD (endoplasmic reticulum-associated degradation) by deubiquitinating proteins involved in those functions. It also plays roles in diseases such as cancer and neurodegeneration. It can play both a suppressor and activator role in tumorigenesis. For instance, low levels of USP13 correlate with low levels of PTEN (phosphatase and tensin homolog), as UPS13 stabilizes the protein. A deeper understanding of all its cellular roles and how to best

target its function in a specific context may prove beneficial in cancer therapy.

Species: Human

Construct: USP13 (His-2-863(end)-FLAG)

Concentration:0.38 mg/mlExpression System:HEK293Purity:≥90%

Format: Aqueous buffer solution.

Formulated In: 45 mM Tris-HCl, pH 8.0, 300 mM NaCl, 2.48 mM KCl, 0.045% Tween-20, 10% glycerol,

100 μg/ml FLAG peptide

MW: 100 kDa Genbank Accession: NM 003940.3

Stability: At least 6 months at -80°C.

Storage: -80°C

Instructions for Use: Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before

opening. Aliquot into small volumes and flash freeze for long term storage. Avoid

multiple freeze/thaw cycles.

Specific Activity: 5 pmol/min/μg

Assay Conditions: USP13 was incubated in 50 mM Tris-HCl, 0.5 mM EDTA, 0.05% Tween 20, 1 mM DTT

with 500 nM Ubiquitin-AMC. The reaction was incubated at room temperature for 30 minutes. Fluorescence intensity was measured at $\lambda \exp(\lambda)$ of 360nm/460nm using a

Tecan M1000 plate reader.

Applications: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.



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Quality Control Data

