

Active Recombinant Mouse Usp18 Protein, His-tagged

Cat. No. Usp18-32M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Usp18 protein (Ser47 - Ser368) contains an N-terminal 6-His tag was expressed in Spodoptera frugiperda, Sf 21 (baculovirus).
Species	Human
Source	Insect Cells
ProteinLength	47-368 a.a.
Description	Involved in the regulation of inflammatory response to interferon type 1. Can efficiently cleave only ISG15 fusions including native ISG15 conjugates linked via isopeptide bonds. Necessary to maintain a critical cellular balance of ISG15-conjugated proteins in both healthy and stressed organisms.
Bio-activity	Reaction conditions will need to be optimized for each specific application. We recommend an initial recombinant murine USP18 concentration of 100-250 nM when using ISG15-AMC as a substrate.
Molecular Mass	38 kDa
Purity	>98%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 24 months from date of receipt, -70 centigrade as supplied.

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3 months, -70 centigrade under sterile conditions after opening.

Storage Buffer

X mg/mL (X μ M) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 5 mM DTT and 1 mM EDTA

GENE INFORMATION**Gene Name**

[Usp18 ubiquitin specific peptidase 18 \[Mus musculus \(house mouse\) \]](#)

Official Symbol

[Usp18](#)

Synonyms

43 kDa ISG15-specific protease; ISG15-specific-processing protease; ubiquitin specific protease 15; ubiquitin specific protease 18; ubl thioesterase 18; ubl thiolesterase 18; EC 3.1.2.-; Usp18; ubiquitin specific peptidase 18; UBP43; Ubp15; AW047653; 1110058H21Rik

Gene ID

[24110](#)

mRNA Refseq

[NM_011909](#)

Protein Refseq

[NP_036039](#)

UniProt ID

[Q9WTV6](#)

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