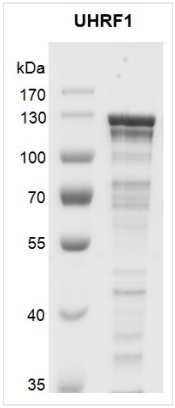
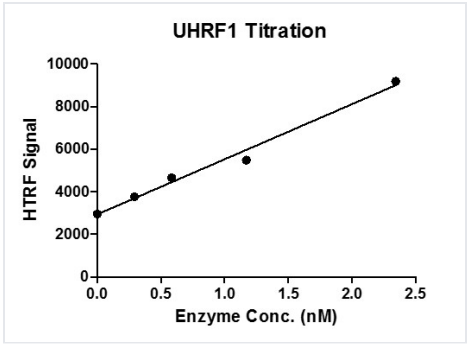
# UHRF1 Recombinant Protein

## PRODUCT OVERVIEW

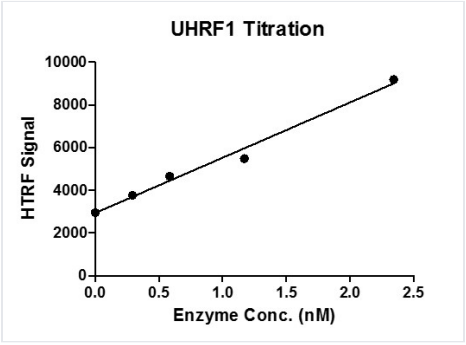
| | |
|---|---|
| **Product Name** | UHRF1, Recombinant Protein |
| **Full Product Name** | Recombinant UHRF1 protein |
| **Product Gene Name** | UHRF1 recombinant protein |
| **Product Synonym Names** | Np95; hNP95; ICBP90; RNF106; TDRD22; hUHRF |
| **Host** | E Coli |
| **Form/Format** | Recombinant UHRF1 protein is supplied at a concentration of 1ug/ul in 25mM Tris pH8.0, 300mM NaCl, 5% glycerol. |
| **Preparation and Storage** | Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.<br>Shipping Temp: Dry Ice |
| **Molecular Weight** | 91,116 Da |
| **OMIM** | 607990 |
| **3D Structure** | ModBase 3D Structure for Q96T88 |
| **Protein Species** | Human |
| **Tag** | His-Tag |
| **Notes** | This protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |
| **Dry Ice Shipment** | Extra charge fee may add to your shipping cost as dry ice is required to ship this product. |
| **Product Categories/Family for UHRF1 recombinant protein** | Recombinant Proteins; DNA Damage; Histone Deacetylase (HDAC) |
| **Related Product Information for UHRF1 recombinant protein** | Short Description: Recombinant UHRF1 protein was expressed in E Colii cells as the full-length protein (accession number NP_037414.3) with a C-terminal 6xHis-tag. The molecular weight of the protein is 93.1 kDa. It is suitable for analysis of enzyme function and transcription factor regulation as well as for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.<br><br>Background: UHRF1 (Ubiquitin Like With PHD And Ring Finger Domains 1, also known as Np95, hNP95, ICBP90, RNF106, TDRD22, hUHRF1, huNp95) is a member of a subfamily of RING-finger type E3 ubiquitin ligases. UHRF1 binds to specific DNA sequences, and recruits a histone deacetylase to regulate gene expression. UHTR1 plays a major role in the G1/S transition by regulating topoisomerase IIalpha and retinoblastoma gene expression, and functions in the p53-dependent DNA damage checkpoint. UHRF1 is overexpressed in various cancers. UHRF1 plays a critical role in maintaining DNA methylation in mammalian cells. |
| **Other Notes** | Small volumes of UHRF1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for UHRF1 purchase** | MBS389077 is a recombinant protein targeting UHRF1. Also known as Recombinant UHRF1 protein. Host: E Coli. |




**SDS-Page of UHRF1 recombinant protein**
Recombinant UHRF1 protein gel 8% SDS-PAGE Coomassie staining MW: 93.1 kDa Purity: > 60%




**Testing Data of UHRF1 recombinant protein**
UHRF1 binding assay1 uM H3K9me3 peptide was incubated with different concentrations of UHRF1 protein in 50 mM HEPES-NaOH pH 7.5, 0.1% BSA for 1 hour, then 10 ul anti-His antibody and SA-XL665 mixture (1:100 dilution in the same buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.




**Testing Data of UHRF1 recombinant protein**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UHRF1. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 115430233 |
| **NCBI GeneID** | 29128 |
| **NCBI Accession #** | NP_037414.3 |
| **UniProt Primary Accession #** | Q96T88 |
| **UniProt Secondary Accession #** | Q2HIX7; Q8J022; Q9H6S6; Q9P115; Q9P1U7; A0JBR2; A8K024; B2RBA9 |
| **UniProt Related Accession #** | Q96T88 |
| **GenBank Nucleotide #** | NM_013282.3 |
| **NCBI Official Full Name** | E3 ubiquitin-protein ligase UHRF1 isoform 2 |
| **NCBI Official Synonym Full Names** | ubiquitin like with PHD and ring finger domains 1 |
| **NCBI Official Symbol** | UHRF1 |
| **NCBI Official Synonym Symbols** | Np95; hNP95; ICBP90; RNF106; TDRD22; hUHRF1; huNp95 |
| **UniProt Protein Name** | E3 ubiquitin-protein ligase UHRF1 |
| **UniProt Synonym Protein Names** | Inverted CCAAT box-binding protein of 90 kDa; Nuclear protein 95; Nuclear zinc finger protein Np95; HuNp95; hNp95; RING finger protein 106; Transcription factor ICBP90; Ubiquitin-like PHD and RING finger domain-containing protein 1; hUHRF1; Ubiquitin-like-containing PHD and RING finger domains protein 1 |
| **Protein Family** | E3 ubiquitin-protein ligase |
| **UniProt Gene Name** | UHRF1 |

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|---|---|
| **UniProt Synonym Gene Names** | ICBP90; NP95; RNF106; HuNp95; hNp95; hUHRF1 |
| **UniProt Entry Name** | UHRF1_HUMAN |
| **NCBI Protein Information** | E3 ubiquitin-protein ligase UHRF1 |
| **NCBI Summary for UHRF1** | This gene encodes a member of a subfamily of RING-finger type E3 ubiquitin ligases. The protein binds to specific DNA sequences, and recruits a histone deacetylase to regulate gene expression. Its expression peaks at late G1 phase and continues during G2 and M phases of the cell cycle. It plays a major role in the G1/S transition by regulating topoisomerase IIalpha and retinoblastoma gene expression, and functions in the p53-dependent DNA damage checkpoint. It is regarded as a hub protein for the integration of epigenetic information. This gene is up-regulated in various cancers, and it is therefore considered to be a therapeutic target. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene exists on chromosome 12. [provided by RefSeq, Feb 2014] |
| **Research Articles on UHRF1** | **1.** These results suggest that tumor-promoting functions of UHRF1 in retinoblastoma are largely independent of its role in DNA methylation. |
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