

## UHRF2 Protein, Human (His, SUMO)

Cat. No.:	HY-P701516
Synonyms:	UHRF2; E3 ubiquitin-protein ligase UHRF2; Np95/ICBP90-like RING finger protein; Np95-like RING finger protein; Nuclear protein 97; Nuclear zinc finger protein Np97; RING finger protein 107; RING-type E3 ubiquitin transferase UHRF2; Ubiquitin-like PHD and RING finger domain-containing protein 2; Ubiquitin-like-containing PHD and RING finger domains protein 2
Species:	Human
Source:	E. coli
Accession:	Q96PU4 (T419-K648)
Gene ID:	115426
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>UHRF2, an E3 ubiquitin ligase, plays pivotal roles in orchestrating DNA methylation, histone modifications, cell cycle progression, and DNA repair processes. As a specific reader for 5-hydroxymethylcytosine (5hmC), UHRF2 recruits various substrates to these genomic sites, facilitating their ubiquitination and ensuring the maintenance of 5mC levels at specific loci, thereby regulating neuron-related gene expression. In the realm of cell cycle regulation, UHRF2 exerts control by ubiquitinating cyclins CCND1 and CCNE1, leading to G1 arrest. It also targets PCNP for ubiquitin-mediated degradation by the proteasome. Functioning as a key player in DNA damage response, UHRF2 ubiquitinates p21/CDKN1A, promoting its proteasomal degradation and actively participating in DNA repair. Acting as an interstrand cross-links (ICLs) sensor, UHRF2 collaborates with UHRF1 to recruit FANCD2 to ICLs, resulting in FANCD2 monoubiquitination and subsequent activation. Furthermore, UHRF2 contributes to the UV-induced DNA damage response by physically interacting with ATR upon irradiation, thereby facilitating ATR activation.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA