

Lot # XXXXX

MATERIAL DATA SHEET

His₆-UBE2N (Ubc13)/UBE2V1 (Uev1) Complex, *human recombinant* **Cat. # E2-664**

Ubiquitin-conjugating Enzyme E2N (UBE2N), also known as Ubiquitin-conjugating Enzyme 13 (Ubc13), forms a functional complex with the catalytically inactive Uev1a/UBE2V1 protein. Human UBE2N/Ubc13 shares 100% and 99% amino acid (aa) sequence identity with the mouse and rat orthologs, respectively. Human Uev1a/UBE2V1 shares 89% aa sequence identity with its mouse and rat orthologs. The UBE2N/UBE2V1 complex functions with ubiquitin ligases (E3s), including TRAF6 and TRIM5, to synthesize K63-linked ubiquitin chains that can either be unanchored or attached to target proteins. The UBE2N/UBE2V1 complex localizes primarily to the cytoplasm and is important for NF-κB activation. Additionally, this complex may function in the intracellular response to retroviral capsid recognition. Pathologically, the UBE2N/UBE2V1 complex is required for the proliferation of diffuse large B-cell lymphoma cells, suggesting that it may play a role in cancer.

Product Information

Quantity:	100 µg
Stock:	1.0 mg/ml (25 µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% (v/v) Glycerol, 2 mM TCEP
MW:	18 kDa (UBE2N), 17 kDa (UBE2V1)
Purity:	>90 % by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain.

Use & Storage

Use:	Recombinant Human His ₆ -UBE2N/UBE2V1 Complex is a member of the Ubiquitin-conjugating (E2) enzyme family that receives Ubiquitin from a Ubiquitin-activating (E1) enzyme and subsequently interacts with a Ubiquitin ligase (E3) to conjugate Ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial His ₆ -UBE2N/UBE2V1 Complex concentration of 0.1-1 µM.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

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Literature

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Rev: 4/10/2019

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