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MATERIAL DATA SHEET

His6 UBE2N/UBE2V2 Complex, *human recombinant*
Cat. # E2-666

Ubiquitin-conjugating Enzyme E2N (UBE2N), also known as Ubiquitin-conjugating Enzyme 13 (Ubc13), forms a functional complex with the catalytically inactive UBE2V2 (human homologue of yeast MMS2) protein. Human UBE2N/Ubc13 shares 100% and 99% amino acid (aa) sequence identity with the mouse and rat orthologs, respectively, while human UBE2V2 shares 99% aa sequence identity with its mouse and rat orthologs. The UBE2N/UBE2V2 Complex functions with Ubiquitin ligases (E3s), including RNF111 and RNF8, to synthesize Lys63-linked Ubiquitin chains that can either be unanchored or attached to target proteins. The UBE2N/UBE2V2 complex has important roles in facilitating responses to various forms of DNA damage.

Product Information	
Quantity:	50 | 100 µg
Stock:	0.88 mg/ml (25 µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% Glycerol, 2 mM TCEP
MW:	18 kDa (UBE2N), 17 kDa (UBE2V2)
Purity:	>95 % by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain.

Use & Storage	
Use:	Recombinant Human His_6-UBE2N/UBE2V2 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/UBE2V2 Complex concentration of 0.1-1 µM.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

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Literature

References:

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