

Product Data Sheet

Cat # RP-363

Recombinant Human Ubiquitin Conjugating Enzyme 9, His tag

**Size:** 10 ug

Human Ubiquitin Conjugating Enzyme 9 (Ubc9) is a member of the E2 family and is specific for the conjugation of SUMO to a variety of target proteins. SUMO conjugation to target proteins is mediated by a different, but analogous, pathway to ubiquitinylation. This E2 is unusual in that it interacts directly with protein substrates that are modified by sumoylation, and may play a role in substrate recognition. Ubc9 can mediate the conjugation of SUMO-1 to a variety of proteins including RanGAP1, IκBα, and PML without the requirement of an E3 ligase.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Source:** *Escherichia Coli*. Ubiquitin Conjugating Enzyme 9 Human Recombinant produced in E.coli is a 19.5 kDa protein containing 171 amino acids. The Ubc9 protein contains 6xHis tag and is purified by proprietary chromatographic techniques. Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in 1X PBS and 1mM DTT, pH 7.5.

**Applications and Suggested Dilutions:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** It is recommended to reconstitute the lyophilized Ubc9 in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Lyophilized Ubc9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Ubc9 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 µl water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

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