# UBE2A, His-Tag Recombinant

Catalog: 79368
Lot: 231026

## Product Information

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|---|---|
| **Description:** | Recombinant full length human UBE2A (ubiquitin-conjugating enzyme E2). This construct contains an N-terminal His-tag. The recombinant protein was affinity purified and is active. |
| **Species:** | Human |
| **Construct:** | UBE2A (His-Full Length) |
| **Concentration:** | 0.10 mg/ml |
| **Expression System:** | *E. coli* |
| **Purity:** | ≥90% |
| **Format:** | Aqueous buffer solution. |
| **Formulated In:** | 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM Imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol |
| **MW:** | 17 kDa |
| **Genbank Accession:** | NM_003336 |
| **Stability:** | At least 6 months at -80°C. |
| **Storage:** | -80°C |
| **Instructions for Use:** | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles. |
| **Specific Activity:** | 30 pmol/min/µg |
| **Assay Conditions:** | UBE2A activity was measured by using the wild type ubiquitin protein diluted in Ubiquitination Buffer [(40 mM Tris pH 7.5), 20 mM $MgCl_2$, 0.1 mg/ml BSA and 0.5 mM DTT)] to a working concentration of 170 ng/µl (20 µM), in AMP-Glo™ based assay (Promega #V5011). Reaction was initiated by mixing 5 µl of a solution of 2x the final concentrations of UBE2A with 5 µl of a 2x Reaction Cocktail (1 µl of stock solution of ubiquitin, 15 ng/µl UBA1 + + 50 µM ATP).<br>The reaction was initiated by mixing 5 µl of 2x UBE2A protein dilutions with 5 µl of 2x Reaction Cocktail for 60 minutes at 37°C. After the plate was equilibrated to Room Temperature (RT), 10 µl of AMP-Glo™ Reagent I was added, mixed for 1-2 minutes and incubated at RT for 60 minutes. AMP-Glo™ Reagent II was diluted 100-fold with Kinase-Glo™ One Solution, and 20 µl were added to each well, mixed for 1-2 minutes and incubated at RT for 30 minutes. The plate was read in a GloMax plate reader (Promega # E7031). The Enzyme Specific Activity was calculated as follows: [ (AMP concentration in µM) * (Reaction Volume in µl)] / Reaction time in min) *(Enzyme amount in mg)] x $10^{-3}$. A blank can be determined from a “no substrate” sample by replacing the enzyme solution with an equal volume of Ubiquitination Buffer. |
| **Applications:** | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |

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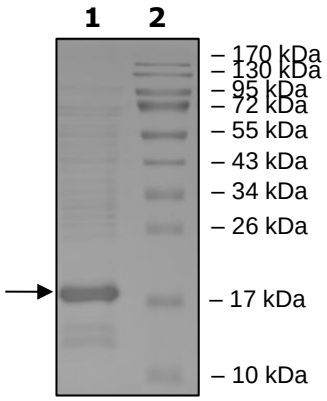
## Quality Control Data

### 4-20% SDS-PAGE Coomassie Staining




### Specific Activity