REACTION BIOLOGY

PRODUCT DATASHEET

UHRF1 [TDR-PHD] (His)

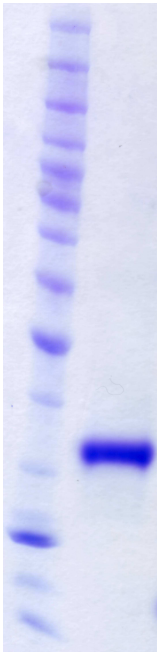
CATALOG NO.: RD-11-248 **LOT NO.:**

DESCRIPTION: Human recombinant UHRF1 [TDR-PHD] bromodomain (residues 123-366; Genbank Accession # NM_001048201; MW = 31.0 kDa) expressed as an N-terminal His-fusion protein in *E. coli*.

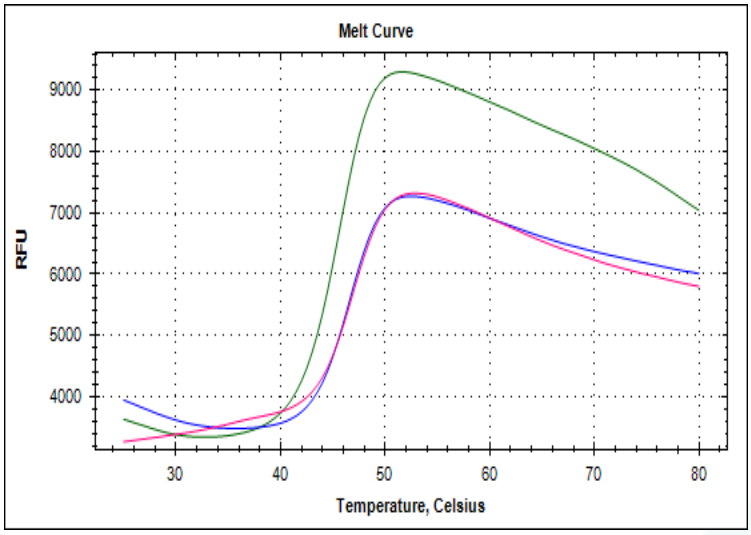
PURITY: >95% by SDS-PAGE

SUPPLIED AS: _ µg/µL in 50 mM Tris HCl, pH 7.5, 500 mM NaCl, 1 mM TCEP, 10 % glycerol

STORAGE: -70°C. Thaw quickly and store on ice before use. The remaining, unused, undiluted protein should be snap frozen, for example in a dry/ice ethanol bath or liquid nitrogen. Minimize freeze/thaws if possible, but very low volume aliquots (<5 µl) or storage of diluted enzyme is not recommended.



Coomassie blue-stained SDS-PAGE (12% acrylamide) of 5 µg of RBC UHRF1-[TDR-PHD](His). MW markers (left) are, from top, 220, 160, 120, 100, 90, 80, 70, 60, **50**, 40, 30, 25, **20**, 15, 10 kDa.



Differential Scanning Fluorimetry of RBC UHRF1[TDR-PHD](His) Thermal denaturation of UHRF1[TDR-PHD](His) is detected (CFX384™ Touch thermal cycler, 'FRET' channel; Bio-Rad) by increased binding and fluorescence of the dye SYPRO® Orange (Life Technologies). Apo form of UHRF1[TDR-PHD](His) displays a Tm of 45.5°C. Addition of 25 µM Bromosporine (blue) or PFI1 (pink) stabilizes the protein folding and shifts the Tm (inflection point to 46.5°C or 47°C respectively.

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