

PRODUCT DATASHEET

CECR2 (GST)

(Cat eye syndrome critical region protein 2; KIAA1740)

CATALOG NO.: RD-11-194 **LOT NO.**:

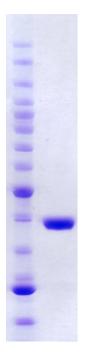
DESCRIPTION: Human recombinant CECR2 bromodomain (residues 425-538; Genbank Accession # NM_031413; MW = 40.6 kDa) expressed as an N-terminal GST-fusion protein in *E. coli*. CECR2, along with SMARCA1 (SNF2L) forms the ATP-dependent chromatin remodeling complex CERF and plays an essential role in neural tube formation¹. The CECR2 bromodomain displays binding affinity for multiple histone H2A and H3 Lys(Ac) residues in singly acetylated histone peptide microarrays (H2A: K15Ac, K36Ac, K75Ac; H3: K9Ac, K14Ac, K18Ac & others), with the H3K9Ac and H3K14Ac interactions confirmed by isothermal titration calorimetry (ITC)². A crystal structure for the CECR2 bromodomain has been determined².

PURITY: >90% by SDS-PAGE

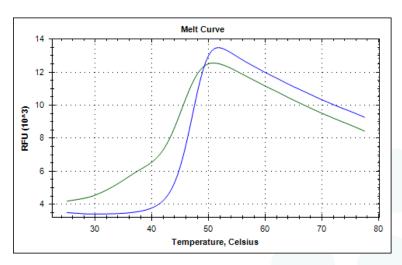
SUPPLIED AS: $_{\mu}$ $_{\mu}$

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.

REFERENCES: 1) G.S. Banting et al. Hum. Mol. Genet. 2005 14 513; 2) P. Filippakopoulos et al. Cell 2012 149 214



Coomassie bluestained SDS-PAGE (4-12% acrylamide) of 4 µg of RBC CECR2 (GST). 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 CECR2 (GST) in presence or absence of Bromosporine.

Thermal denaturation of CECR2 (GST) is detected (CFX384 TMTouch thermal cycler, 'FRET' channel; Bio- Rad) by increased binding and fluorescence of the dye SYPRO®Orange (Life Technologies).

Addition of 25 μ M bromosporine (---) stabilizes the protein folding and shifts the Tm (inflection point) from 45°C to 47°C.

This product is not intended for therapeutic or diagnostic use in animals or in humans.

Reaction Biology

1 Great Valley Parkway, Malvern PA, USA 19355 requests@reactionbiology.com www.reactionbiology.com