PB1-3 (GST) (Polybromo-1, PBRM1 bromodomain-3)

**Catalog No.:** RD-11-270  
**Lot No.:**

**Description:** Human recombinant PB1-3 bromodomain (residues 374-494; Genbank Accession # NM_018313; MW = 41.6 kDa) expressed as an N-terminal GST-fusion protein in *E. coli*. PB1, a chromatin targeting component of the PBAF (SWI/SNF-B) chromatin-remodeling complex, comprises six tandem bromodomains (see review1). Mutations in PB1, including PB1-3, occur frequently in renal cancers2. PB1-3 shows binding affinity for various acetyllysines in singly acetylated histone peptides (e.g. H2AK15Ac)3. A crystal structure of PB1-3 has been determined3.

**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 as determined by OD280.

**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.


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**Differential Scanning Fluorimetry of RBC PB1-3 (GST).** Thermal denaturation of PB1-3 (His) is detected (CFX384TM Touch thermal cycler, ‘FRET’ channel; Bio-Rad) by increased binding and fluorescence of the dye SYPRO®Orange (Life Technologies). Apo form of PB1-3 (GST) displays a Tm of 49.5°C and is not stabilized in the presence of various known bromodomain ligands (JQ1, PFI1, CBP112, Bromosporine, SGC-CBP30, BET151 and RVX-208; all tested at 25 µM).

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

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