# PRODUCT DATASHEET

## SP140L-[PHD-BRD] (GST) (Nuclear body protein SP140-like protein)

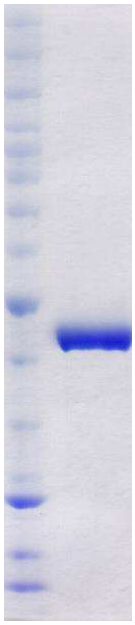
**CATALOG NO.:** RD-11-287 **LOT NO.:**

**DESCRIPTION:** Human recombinant SP140L PHD-bromodomain construct (residues 401-580; Genbank Accession # NM_138402; MW = 48.3 kDa) expressed as an N-terminal GST-fusion protein in *E. coli*.

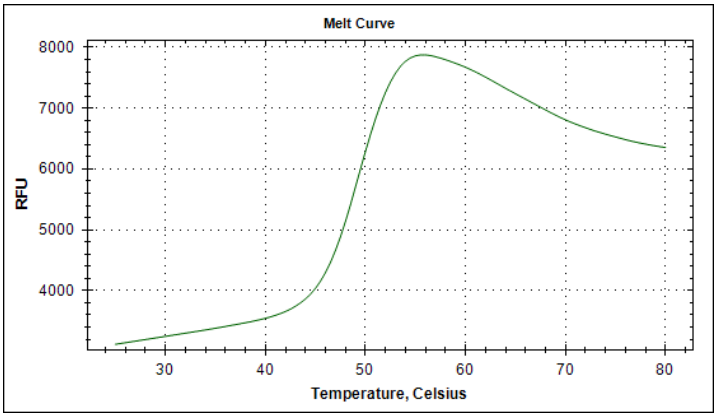
**PURITY:** >95% by SDS-PAGE

**SUPPLIED AS:** _ µg/µL in 50 mM Tris HCl, pH 7.5, 500 mM NaCl, 1 mM TCEP, 10 % glycerol as determined by $OD_{280}$.

**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 (4-12% acrylamide) of 4 µg of RBC SP140L-[PHD-BRD] (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 SP140L-[PHD-BRD] (GST)** Thermal denaturation of SP140L-[PHD-BRD] (GST) 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 SP140L (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, RVX-208, GSK2801 and PFI3; not shown; all tested at 25 µM).



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