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Product Information

TPX2, His-tagged, human recombinant, expressed in *Sf*9 cells

Catalog Number **SRP5372**
Storage Temperature –70 °C

Synonyms: DIL2, p100, DIL-2, HCTP4, FLS353, HCA519, REPP86, C20orf1, C20orf2, GD:C20orf1

Product Description

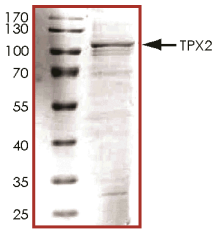
TPX2 is a nuclear proliferation-associated protein whose expression is restricted to cell cycle phases S, G_2, and M.[1] It is mainly expressed in lung carcinoma cell lines and also found in adult placenta, skeletal muscle, thymus, testis, and small intestine, and in fetal brain, liver, and kidney. TPX2 is required for targeting STK6 to the spindle apparatus, where STK6 may regulate the function of TPX2 during spindle assembly. TPX2 is main function in mitotic spindle assembly likely contributes to its role in chromosome stability control and tumor suppression.[2]

Recombinant full-length human TPX2 protein was expressed by baculovirus in *Sf*9 insect cells using an N-terminal His-tag. The gene accession number is NM_012112. It is supplied in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, and 25% glycerol.

Molecular mass: ~110 kDa

The enzymatic activity of this product has not been determined. This product can be used for Aurora A activation *in vitro*.

Figure 1.
SDS-PAGE Gel of Typical Lot:
≥70% (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Heidebrecht, H.J. et al., p100: a novel proliferation-associated nuclear protein specifically restricted to cell cycle phases S, G_2, and M. Blood, **90**, 226-233 (1997).
2. Joukov, V. et.al: The BRCA1/BARD1 heterodimer modulates Ran-dependent mitotic spindle assembly. Cell, **127**, 539-552 (2006).

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