

## ZWINT/ZW10 interactor Protein, Human (GST)

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| <b>Cat. No.:</b>         | HY-P71527   |
| <b>Synonyms:</b>         | Human ZW10 interacting protein 1; HZwint 1; HZwint1; KNTC 2 AP; KNTC2AP; MGC 117174; MGC117174; ZW10 interacting kinetochore protein; ZW10 interacting protein 1; ZW10 interactor; ZW10 interactor; kinetochore protein; ZW10-interacting protein 1; ZWINT 1; ZWINT; Zwint-1; ZWINT_HUMAN; ZWINT1 |
| <b>Species:</b>          | Human   |
| <b>Source:</b>           | E. coli   |
| <b>Accession:</b>        | O95229 (1M-277P)  |
| <b>Gene ID:</b>          | 11130   |
| <b>Molecular Weight:</b> | Approximately 58.2 kDa  |

### PROPERTIES

|                                |  |
|--------------------------------|--|
| <b>AA Sequence</b>             | <pre> M E A A E T E A E A   A A L E V L A E V A   G I L E P V G L Q E   E A E L P A K I L V E F V V D S Q K K D   K L L C S Q L Q V A   D F L Q N I L A Q E   D T A K G L D P L A S E D T S R Q K A I   A A K E Q W K E L K   A T Y R E H V E A I   K I G L T K A L T Q M E E A Q R K R T Q   L R E A F E Q L Q A   K K Q M A M E K R R   A V Q N Q W Q L Q Q E K H L Q H L A E V   S A E V R E R K T G   T Q Q E L D G V F Q   K L G N L K Q Q A E Q E R D K L Q R Y Q   T F L Q L L Y T L Q   G K L L F P E A E A   E A E N L P D D K P Q Q P T R P Q E Q S   T G D T M G R D P G   V S F K A V G L Q P   A G D V N L P </pre> |
| <b>Appearance</b>              | Lyophilized powder.  |
| <b>Formulation</b>             | Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.  |
| <b>Endotoxin Level</b>         | <1 EU/μg, determined by LAL method.  |
| <b>Reconstitution</b>          | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.  |
| <b>Storage &amp; Stability</b> | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.   |
| <b>Shipping</b>                | Room temperature in continental US; may vary elsewhere.  |

### DESCRIPTION

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| <b>Background</b> | ZWINT, as a key component of the MIS12 complex, plays a pivotal role in kinetochore formation and spindle checkpoint activity. Its involvement is crucial for the proper targeting of ZW10 to the kinetochore during prometaphase. ZWINT establishes interactions with essential partners within the complex, including ZW10 and MIS12. Furthermore, ZWINT exhibits a specific interaction with the NDC80 subunit of the NDC80 complex during mitosis, contributing to the orchestration of intricate cellular processes associated with spindle dynamics. In addition to these interactions, ZWINT |
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engages with KNL1, CETN3, DSN1, and PMF1, highlighting its multifaceted role in facilitating the assembly and functionality of the kinetochore complex.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA