
Product Data Sheet

Product Name: ZWINT Human
 Cat. No.: GP25054
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ZW10 Interacting Kinetochose Protein; ZWINT; ZW10 Interactor; HZwint-1; KNTC2AP; ZWINT1; Human ZW10 Interacting Protein-1; ZW10 Interactor Kinetochose Protein zwint-1; Zwint-1; ZW10-Interacting Protein 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEAAETE AEAALVLA EVAGILEPVG LQEEAELPAK ILVEFVDSQ KKDKLLCSQL QVADFLQNIL AQEDTAKGLD PLASEDTSRQ KAIAAKEQWK ELKATYREHV EAIKIGLTKA LTQMEEAQRK RTQLREAFEQ LQAKQMAME KRRAVQNQWQ LQEKHLQHL AEVSAEGKLL FPEAEAEAEN LPDDKPQQPT RPQEQSTGDT MGRDPGVSFK AVGLQPAGDV NLP.		
Formulation	The ZWINT solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

ZW10 Interacting Kinetochose Protein (ZWINT) is involved in kinetochose function. ZWINT is part of the MIS12 complex, which is essential for kinetochose formation and spindle checkpoint activity. ZWINT is localized to the cytoplasm during interphase and to kinetochores from late prophase to anaphase. ZWINT interacts with ZW10 (Zeste White 10) and regulates the association between ZW10 and kinetochores. ZWINT gene defects are linked with the pathogenesis of Robertsóns syndrome, an autosomal recessive disorder characterized by growth retardation due to premature chromosome separation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ZWINT Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 253 amino acids (1-230) and having a molecular mass of 27.9 kDa (Molecular size on SDS-PAGE will appear higher). ZWINT is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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