PC4/SUB1 Protein, Human (His)

Cat. No.:	HY-P74650
Synonyms:	Activated RNA polymerase II transcriptional coactivator p15; PC4; p14; SUB1; RPO2TC1
Species:	Human
Source:	E. coli
Accession:	P53999 (M1-L127)
Gene ID:	10923
Molecular Weight:	Approximately 16 kDa

PROPERTIES

AA Sequence	M P K S K E L V S S S S S G S D S D S E V D K K L K R K K Q V A P E K P V K K Q K T G E T S R A L S S S K Q S S S S R D D N M F Q I G K M R Y V S V R D F K G K V L I D I R E Y W M D P E G E M K P G R K G I S L N P E Q W S Q L K E Q I S D I D D A V R K L
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	PC4/SUB1, also known as positive cofactor 4, is a general coactivator with a pivotal role in facilitating functional interactions between upstream activators and the general transcriptional machinery. It functions cooperatively with TAFs (TBP-associated factors) and is implicated in stabilizing multiprotein transcription complexes during gene expression. PC4/SUB1 demonstrates the ability to bind both single-stranded DNA and, in vitro, non-specifically to double-stranded DNA (dsDNA), indicating a versatile DNA-binding capability. Structurally, it forms homodimers, suggesting a cooperative arrangement that may enhance its functional properties. Additionally, PC4/SUB1 interacts with CSTF2, further emphasizing its involvement in diverse cellular processes related to transcriptional regulation. Ongoing research may unveil more insights into the specific mechanisms and regulatory functions of PC4/SUB1 in gene expression.

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

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