

ING5 Protein, Human (His)

Cat. No.:	HY-P75887
Synonyms:	Inhibitor of growth protein 5; p28ING5; ING5
Species:	Human
Source:	E. coli
Accession:	Q8WYH8-2 (E36-Q84)
Gene ID:	84289
Molecular Weight:	Approximately 7 kDa

PROPERTIES

AA Sequence	E D K K A E I D I L A A E Y I S T V K T L S P D Q R V E R L Q K I Q N A Y S K C K E Y S D D K V Q
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	ING5, an integral component of the HBO1 complex, plays a crucial role in mediating the acetylation of histone H3 at 'Lys-14' (H3K14ac), and, to a lesser extent, histone H4 acetylation. Within the context of the MOZ/MORF complex, which possesses histone H3 acetyltransferase activity, ING5 contributes to chromatin acetylation, potentially regulating DNA replication and serving as a transcriptional coactivator. Functionally, ING5 inhibits cell growth, induces a delay in S-phase progression, and enhances Fas-induced apoptosis, relying on the presence of INCA1. As a versatile participant in distinct complexes, ING5 forms the HBO1 complex with KAT7/HBO1, MEAF6, and a scaffold subunit, influencing H3K14ac specificity, and the MOZ/MORF complex comprising ING5, KAT6A, KAT6B, MEAF6, and a scaffold subunit. Interactions with H3K4me3 and H3K4me2, as well as associations with EP300 and p53/TP53, further underscore the multifaceted roles of ING5 in chromatin modification and cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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