

CECR2 Protein, Human (His)

Cat. No.:	HY-P701613
Synonyms:	CECR2; Cat eye syndrome critical region protein 2
Species:	Human
Source:	E. coli
Accession:	Q9BXF3 (R425-H538)
Gene ID:	27443
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>CECR2 protein functions as a regulatory subunit within the ATP-dependent CERF-1 and CERF-5 ISWI chromatin remodeling complexes, which orchestrate the assembly of ordered nucleosome arrays on chromatin, facilitating DNA access during essential processes such as DNA replication, transcription, and repair. Despite lacking the capacity to slide mononucleosomes to the center of a DNA template, these complexes play crucial roles in various developmental processes. During embryogenesis, CECR2 is required for neural tube closure and inner ear development, while in adults, it is essential for spermatogenesis through the formation of ISWI-type chromatin complexes. Recognizing and binding acylated histones, CECR2 interacts with histones acetylated and/or butyrylated, contributing to histone-modifying complexes. Furthermore, its interaction with LRPPRC suggests involvement in integrating the cytoskeletal network with vesicular trafficking, nucleocytoplasmic shuttling, transcription, chromosome remodeling, and cytokinesis. As part of the CERF-1 and CERF-5 ISWI chromatin remodeling complexes, CECR2 collaborates with SMARCA1 and SMARCA5/SNF2H, respectively, highlighting its multifaceted role in chromatin dynamics and cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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