

Embryonic Ectoderm Development

Cat. No. CBCRY07 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	E.coli
Background	The crystal structure of EED in complex with a 30 residue peptide from EZH2 reveals that the peptide binds to the bottom of the WD-repeat domain of EED. The structural determinants of EZH2-EED interaction are present not only in EZH2 and EZH1 but also in its Drosophila homolog E(Z), suggesting that the recognition of ESC by E(Z) in Drosophila employs similar structural motifs. Structure-based mutagenesis identified critical residues from both EED and EZH2 for their interaction.
Protein Classification	gene regulation
Structure Weight	45399.05 Da
Polymer	1
Molecule	Embryonic ectoderm development
Chain Length	361 amino acids
PDB ID	2QXV
MMDB ID	59571

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Method	X-Ray Diffraction
Resolution	1.82Å
Reference	Han, Z., Xing, X., Hu, M., Zhang, Y., Liu, P., Chai, J. (2007) Structural basis of EZH2 recognition by EED Structure 15: 1306-1315

GENE INFORMATION

Gene Name	Eed
Synonyms	embryonic ectoderm development; ENSMUSG00000039373; l(7)5Rn; l7Rn5; lusk; OTTMUSP00000023294; lethal; Chr 7; Rinchik 5
Chromosome Location	7
Function	chromatin binding; histone methyltransferase binding; protein binding
Gene ID	14056

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