ESCO1 Blocking Peptide (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	ESCO1, Blocking Peptide
Full Product Name	ESCO1 Blocking Peptide (C-term)
Product Gene Name	ESCO1 blocking peptide
Product Synonym Gene Name	EFO1; KIAA1911
Product Synonym Names	N-acetyltransferase ESCO1; 231-; CTF7 homolog 1; Establishment factor-like protein 1; EFO1p; hEFO1; Establishment of cohesion 1 homolog 1; ECO1 homolog 1; ESO1 homolog 1; ESCO1; EFO1; KIAA1911
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	ESCO1 peptide (MBS9229012) is used for blocking the activity of ESCO1 antibody (MBS9211780)
Molecular Weight	78,987 Da
OMIM	609674
Cellular Location	Nucleus. Chromosome. Note: Nuclear at interphase, associated with chromosomes during mitosis
Tissue Location	Widely expressed. Expressed in heart, brain, liver, placenta, lung, kidney and pancreas. Highly expressed in muscle.
Related Product Information for ESCO1 blocking peptide	Acetyltransferase required for the establishment of sister chromatid cohesion and couple the processes of cohesion and DNA replication to ensure that only sister chromatids become paired together. In contrast to the structural cohesins, the deposition and establishment factors are required only during S phase. Acts by mediating the acetylation of cohesin component SMC3.
Other Notes	Small volumes of ESCO1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ESCO1 purchase	MBS9229012 is a blocking peptide targeting ESCO1. Also known as ESCO1 Blocking Peptide (C-term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ESCO1. It may not necessarily be applicable to this product.

NCBI GI #	116241355
NCBI GeneID	114799
NCBI Accession #	Q5FWF5.3
UniProt Primary Accession #	Q5FWF5
UniProt Secondary Accession #	Q69YG4; Q69YS3; Q6IMD7; Q8N3Z5; Q8NBG2; Q96PX7; B0YJ11; B0YJ12
UniProt Related Accession #	Q5FWF5
NCBI Official Full Name	N-acetyltransferase ESCO1
NCBI Official Synonym Full Names	establishment of sister chromatid cohesion N-acetyltransferase 1
NCBI Official Symbol	ESCO1

NCBI Official Synonym Symbols	CTF; ECO1; EFO1; ESO1; A930014I12Rik
UniProt Protein Name	N-acetyltransferase ESCO1
UniProt Synonym Protein Names	CTF7 homolog 1; Establishment factor-like protein 1; EFO1p; hEFO1; Establishment of cohesion 1 homolog 1; ECO1 homolog 1; ESO1 homolog 1
Protein Family	N-acetyltransferase
UniProt Gene Name	ESCO1
UniProt Synonym Gene Names	EFO1; KIAA1911; EFO1p; hEFO1; ECO1 homolog 1; ESO1 homolog 1
UniProt Entry Name	ESCO1_HUMAN
NCBI Protein Information	N-acetyltransferase ESCO1
NCBI Summary for ESCO1	ESCO1 belongs to a conserved family of acetyltransferases involved in sister chromatid cohesion (Hou and Zou, 2005 [PubMed 15958495]).[supplied by OMIM, Mar 2008]
UniProt Comments for ESCO1	ESCO1: Acetyltransferase required for the establishment of sister chromatid cohesion and couple the processes of cohesion and DNA replication to ensure that only sister chromatids become paired together. In contrast to the structural cohesins, the deposition and establishment factors are required only during S phase. Acts by mediating the acetylation of cohesin component SMC3. Belongs to the acetyltransferase family. GCN5 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.3.1.-; Transferase Chromosomal Location of Human Ortholog: 18q11.2 Cellular Component: chromatin; nucleoplasm Molecular Function: N-acetyltransferase activity Biological Process: regulation of DNA replication
Research Articles on ESCO1	**1.** By interacting with a unique domain of Esco1, Pds5 recruits Esco1 to chromatin-bound cohesin complexes to form cohesion.
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