

Recombinant Human EXO5 Protein (1-373 aa), His-SUMO-tagged

Cat. No. EXO5-1119H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EXO5 Protein (1-373 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-373 aa
Description	Single-stranded DNA (ssDNA) bidirectional exonuclease involved in DNA repair. Probably involved in DNA repair following ultraviolet (UV) irradiation and interstrand cross-links (ICLs) damage. Has both 5'-3' and 3'-5' exonuclease activities with a strong preference for 5'-ends. Acts as a sliding exonuclease that loads at ssDNA ends and then slides along the ssDNA prior to cutting; however the sliding and the 3'-5' exonuclease activities are abolished upon binding to the replication protein A (RPA) complex that enforces 5'-directionality activity.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	57.8 kDa
AA Sequence	MAETREEETVSAEASGFSDLSDFLEFLDLEDAQESKALVNMPGPSSSESLGKDDK PISLQNWKRGLDILSPMERFHLKYLYVTDLATQNWCELQTAYGKELPGFLAPEKAAV

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LDTGASIH LARELELHDLVTPVTTKEDAWAIKFLNILLIPTLQSEGHIREFPVFGEGE
GVLLVGVIDELHYTAKGELELAELKTRRRPMLPLEAQKKKDCFQVSLYKYIFDAMVQ
GKVTPASLIHHTKLCLEKPLGPSVLRHAQQGGFSVKSLGDLMELVFLSLTLSDLPVIDI
LKIEYIHQETATVLGTEIVAFKEKEVRKVQHYMAYWMGHREPQGV DVEEAWKCR T
CTYADICEWRKGSGVLSSTLAPQVKKAK

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name EXO5 exonuclease 5 [Homo sapiens (human)]

Official Symbol EXO5

Synonyms DEM1; Exo V; hExo5; C1orf176;

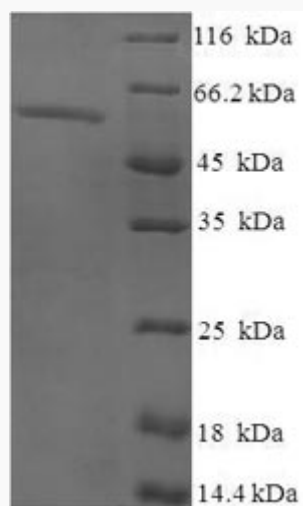
Gene ID 64789

UniProt ID Q9H790

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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