Recombinant Human CCNO, GST-tagged

Cat. No. CCNO-129H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human Cyclin O was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	Cyclin O belongs to the highly conserved cyclin family. These family members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclin O plays an important role in the processes of transcription. Cyclin O also plays an important role in DNA repair and cell cycle progression. Cyclin O localizes exclusively in the nucleus. Cyclin O shows significant uracil-DNA glycosylase activity in which the activity of in vitro translated UDG2 was not as robust as that of the mitochondrial isoform of UNG
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~69 kDa
Purity	>95% by densitometry
Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller

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	quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 μg/μl

GENE INFORMATION

Gene Name	CCNO cyclin O [Homo sapiens]
Official Symbol	CCNO
Synonyms	CCNO; cyclin O; CCNU, cyclin U; cyclin-O; FLJ22422; UDG2; UNG2; cyclin U; cyclin domain containing; cyclin-like uracil-DNA glycosylase; CCNU;
Gene ID	10309
mRNA Refseq	NM_021147
Protein Refseq	NP_066970
MIM	607752
UniProt ID	P22674
Chromosome Location	5q11.2
Pathway	Base Excision Repair, organism-specific biosystem; Base-Excision Repair, AP Site Formation, organism-specific biosystem; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway, organism-specific biosystem; Cleavage of the damaged pyrimidine, organism-specific biosystem; DNA Repair, organism-specific

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	biosystem; Depyrimidination, organism-specific biosystem; Displacement of DNA glycosylase byAPE1, organism-specific biosystem;
Function	protein kinase binding; uracil DNA N-glycosylase activity;

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