

Recombinant Human UNG Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UNG-2871H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UNG MS Standard C13 and N15-labeled recombinant protein (NP_550433) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving the N-glycosylic bond and initiating the base-excision repair (BER) pathway. Uracil bases occur from cytosine deamination or misincorporation of dUMP residues. Alternative promoter usage and splicing of this gene leads to two different isoforms: the mitochondrial UNG1 and the nuclear UNG2. The UNG2 term was used as a previous symbol for the CCNO gene (GeneID 10309), which has been confused with this gene, in the literature and some databases.
Molecular Mass	34.5 kDa
AA Sequence	MIGQKTLYSFFSPSPARKRHAPSPEPAVQGTGVAGVPEESGDAAAIPAKKAPAGQE EPGTPPSSPLSAEQLDRIQRNKAALLRLAARNVPVGFGESWKKHLSGEFGKPYFIK LMGFVAEERKHHTVYPPPHQVFTWTQMCDIKDVKVILGQDPYHGPNQAHGLCFVS QRPVPPPPSLENIYKELSTDIEDFVHPGHGDLSGWAKQGVLLNNAVLTVRAHQANSH KERGWEQFTDAVSWLNQNSNGLVFLWGSYAQKKGSAIDRKRRHHVLQTAHPSPL

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	SVYRGFFGCRHFSKTNELLQKSGKKPIDWKELTRTRPLEQKLISEEDLAANDILDYKD DDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	UNG uracil-DNA glycosylase [Homo sapiens (human)]
Official Symbol	UNG
Synonyms	UNG; uracil-DNA glycosylase; DGU; HIGM4; UDG; UNG1; UNG2; uracil DNA glycosylase 1; uracil DNA glycosylase 2; uracil-DNA glycosylase 1, uracil-DNA glycosylase 2; UNG15; DKFZp781L1143;
Gene ID	7374
mRNA Refseq	NM_080911
Protein Refseq	NP_550433
MIM	191525

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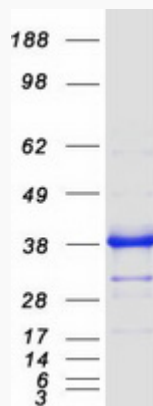
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UniProt ID

P13051

SDS-PAGE

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