Recombinant Full Length Human UNG Protein, C-Flag-tagged

Cat. No. UNG-1019HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UNG Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	34.5 kDa
AA Sequence	MIGQKTLYSFFSPSPARKRHAPSPEPAVQGTGVAGVPEESGDAAAIPAKKAPAGQE EPGTPPSSPLSAEQ LDRIQRNKAAALLRLAARNVPVGFGESWKKHLSGEFGKPYFI KLMGFVAEERKHYTVYPPPHQVFTWTQM CDIKDVKVVILGQDPYHGPNQAHGLCF SVQRPVPPPPSLENIYKELSTDIEDFVHPGHGDLSGWAKQGVL LLNAVLTVRAHQA NSHKERGWEQFTDAVVSWLNQNSNGLVFLLWGSYAQKKGSAIDRKRHHVLQTAHP

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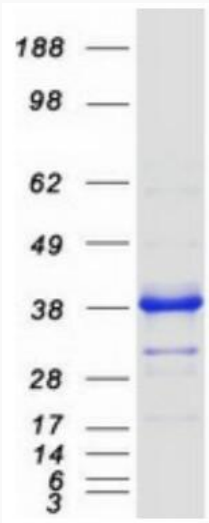
	SP LSVYRGFFGCRHFSKTNELLQKSGKKPIDWKELTRTRPLEQKLISEEDLAANDILDYK DDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency
Protein Pathways	Base excision repair, Primary immunodeficiency
Full Length	Full L.

GENE INFORMATION

Gene Name	UNG uracil DNA glycosylase [Homo sapiens (human)]
Official Symbol	UNG
Synonyms	DGU; UDG; UNG1; UNG2; HIGM4; HIGM5; UNG15
Gene ID	7374

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mRNA Refseq	NM_080911.3
Protein Refseq	NP_550433.1
MIM	191525
UniProt ID	P13051



Coomassie blue staining of purified UNG protein.

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