

# Recombinant Human DNASE2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** DNASE2-698H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | DNASE2 MS Standard C13 and N15-labeled recombinant protein (NP_001366) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | This gene encodes a member of the DNase family. The protein, located in the lysosome, hydrolyzes DNA under acidic conditions and mediates the breakdown of DNA during erythropoiesis and apoptosis. Two codominant alleles have been characterized, DNASE2*L (low activity) and DNASE2*H (high activity), that differ at one nucleotide in the promoter region. The DNASE2*H allele is represented in this record.        |
| <b>Molecular Mass</b>   | 39.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MIPLLLAALLCVPAGALTCYGDGQPVDFVYKLPALRGSGEAAQRGLQYKYLDE<br>SSGGWRDGRALINSPEGAVGRSLQPLYRSNTSQLAFLLYNDQPPQPSKAQDSSMR<br>GHTKGVLLLDHDGGFWLVHSPNFPPPASSAAYSWPHSACTYGGTLLCVSFPFAQ<br>FSKMGKQLTYTPWVYNYQLEGIFAQEFPDLENVVKGHHVSQEPWNSSITLTSQAG<br>AVFQSFQKFSKFGDDL YSGWLAAALGTNLQVQFWHKTGILPSNCSDIWQVLNVNQ<br>IAFPGPAGPSFNSTEDHSKWCVSPKGPWTCVGDMMNRNQGEEQRGGGTLCALPLA<br>LWKAFQPLVKNYQPCNGMARKPSRAYKITRTRPLEQKLISEEDLAANDILDYKDDDD |

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

## GENE INFORMATION

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DNASE2 deoxyribonuclease 2, lysosomal [ Homo sapiens (human) ]                                                                                                                                                |
| <b>Official Symbol</b> | DNASE2                                                                                                                                                                                                        |
| <b>Synonyms</b>        | DNASE2; deoxyribonuclease II, lysosomal; DNL, DNL2; deoxyribonuclease-2-alpha; R31240_2; acid DNase; DNase II alpha; lysosomal DNase II; DNase II, lysosomal; deoxyribonuclease II alpha; DNL; DNL2; DNASE2A; |
| <b>Gene ID</b>         | 1777                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_001375                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_001366                                                                                                                                                                                                     |
| <b>MIM</b>             | 126350                                                                                                                                                                                                        |

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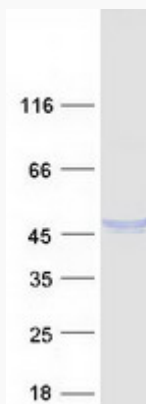
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UniProt ID

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SDS-PAGE

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