

Product Datasheet

Vazyme - DNase I, RNase-free (EN401-02)

Catalog Number	EN401-02
Category	Tools
Description	<p>Deoxyribonuclease I (DNase I) is an endonuclease that digests single- or double-stranded DNA. It recognizes and cleaves phosphodiester bonds to produce a single deoxynucleotide or single- or double-stranded oligodeoxynucleotide with 5'-phosphorylated and 3'-hydroxylated ends. The activity of DNase I depends on Ca^{2+}, and DNase I can also be activated by divalent metal ions such as Mg^{2+} and Mn^{2+}. In the presence of Mg^{2+}, DNase I nonspecifically recognizes and cleaves a double-stranded DNA at any site on either strand, and in the presence of Mn^{2+}, it recognizes and cleaves almost the same sites on both strands of the DNA to produce DNA fragments with blunt ends or sticky ends with one or two nucleotide overhangs. Applications It is applicable for RNA extraction, in vitro transcription, DNA removal in RT-PCR, DNase I footprinting, nick translation, DNA library preparation and other molecular biological experiments.</p>
Application notes	High activity Very low RNase residue Good stability
Usage Notes	Restricted to UK and Ireland's customers ONLY
Storage	Store at $-30 \sim -15^{\circ}\text{C}$ and transport at $\leq 0^{\circ}\text{C}$.
Background	Only available for the UK and Republic of Ireland
Note	For research use only
Expiration Date	12 months from date of receipt.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)



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Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)