

Datasheet: 4050-0184

**BATCH NUMBER 170120**

|                      |                                    |
|----------------------|------------------------------------|
| <b>Description:</b>  | NATIVE HUMAN ELASTASE (NEUTROPHIL) |
| <b>Name:</b>         | ELASTASE                           |
| <b>Other names:</b>  | ELA2                               |
| <b>Format:</b>       | Purified                           |
| <b>Product Type:</b> | Purified Protein                   |
| <b>Quantity:</b>     | 0.1 mg                             |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ▪              |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      | ▪   |    |                |                    |
| Western Blotting           |     |    | ▪              |                    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                       |  |
|---------------------------------------|--|
| <b>Target Species</b>                 | Human  |
| <b>Product Form</b>                   | Purified protein from human neutrophils - liquid     |
| <b>Buffer Solution</b>                | 50mM sodium acetate, pH 5.5<br>150mM sodium chloride |
| <b>Preservative Stabilisers</b>       | None present   |
| <b>Approx. Protein Concentrations</b> | 1.0 mg/ml  |
| <b>External Database Links</b>        | <b>UniProt:</b>                                      |

**Entrez Gene:**

[1991](#)   ELANE   [Related reagents](#)

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**Synonyms**            ELA2

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**Product Information**    Human elastase is a 28.5 kDa serine protease that has been purified from human neutrophils. Elastase is also present in the pancreas, leucocytes and serum.

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**Protein Molecular Weight**            28.5 kDa

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**Activity**                            20-22 U/mg protein

1 unit hydrolyzes one  $\mu$ mole per minute of MeO-Suc-Ala-Ala-Pro-Val-pNA at 25°C, in 100mM Tris-Hcl, pH 7.5 with 500mM NaCl.

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**Purity**                                >95% by SDS PAGE

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**Storage**                            Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**                          12 months from date of despatch

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**Health And Safety Information**    Material Safety Datasheet documentation #10168 available at:  
<https://www.bio-rad-antibodies.com/SDS/4050-0184>  
10168

Donor material tested and found negative for HBsAg and antibodies to HIV1, HIV2, HCV and HBcAg.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious

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**Regulatory**                          For research purposes only

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**North & South America**    Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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