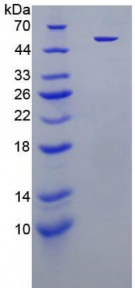
Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

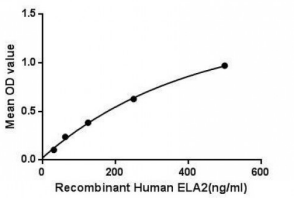
DATASHEET

# Human Elastase 2, Neutrophil (ELA2) Protein (Active)

Catalogue No.:abx651290




SDS-PAGE analysis of active recombinant Human ELA2.




Binding activity of ELA2 and COL17. Please see the Biological Activity section for full experimental details.

Recombinant Neutrophil Elastase is an active protein from Human. It is produced in E. coli using Prokaryotic expression.

| | |
|---|---|
| **Target:** | Neutrophil Elastase |
| **Origin:** | Human |
| **Host:** | E. coli |
| **Tested Applications:** | WB, SDS-PAGE |
| **Purity:** | > 98% |
| **Form:** | Lyophilized |
| **Reconstitution:** | Reconstitute in 20 mM Tris, 150 mM NaCl (pH 8.0) to a concentration of 0.1 - 1.0 mg/ml. Do not vortex. |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles. |
| **Expression:** | Recombinant |
| **Molecular Weight:** | 53.3 kDa (Predicted Molecular Mass), 53 kDa (Accurate Molecular Mass as determined by SDS-PAGE) |

Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

# DATASHEET

**Swiss Prot:** P08246

**Sequence Fragment:** Ile30-Gln247

**Sequence:** I VGGRRARPHA WPFMVSLQLR GGHFCGATLI APNFVMSAAH CVANVNVRAV RVVLGAHNLS RREPTRQVFA VQRIFENGYD PVNLLNDIVI LQLNGSATIN ANVQVAQLPA QGRRLGNGVQ CLAMGWGLLG RNRGIASVLQ ELNVTVVTSL CRRSNVCTLV RGRQAGVCFG DSGSPLVCNG LIHGIASFVR GGCASGLYPD AFAPVAQFVN WIDSIIQ

**Tag:** N-terminal His-tag and GST-tag.

**Activity:** Active

**Biological Activity:** Collagen Type XVII (COL17) has been known to interact with Neutrophil Elastase (ELA2). A binding ELISA assay was conducted to determine the interaction of recombinant human COL17 and recombinant human ELA2. Briefly, ELA2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to COL17-coated microplate wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-ELA2 polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of ELA2 and COL17 is shown in Figure 2.

**Buffer:** Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, 0.05% sarcosyl and 5% trehalose.

**Note:** This product is for research use only.