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## Product Datasheet

### Rat CTRC protein, His tag, Unconjugated GTX00353-PRO

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | Rat CTRC protein, His tag, Unconjugated                                                                                                                                     |
| Artikelnummer            | GTX00353-PRO                                                                                                                                                                |
| Hersteller Artikelnummer | GTX00353-pro                                                                                                                                                                |
| Alternativnummer         | GTX00353-PRO-10                                                                                                                                                             |
| Hersteller               | GeneTex                                                                                                                                                                     |
| Kategorie                | Proteine/Peptide                                                                                                                                                            |
| Applikation              | FA                                                                                                                                                                          |
| Spezies Reaktivität      | Rat                                                                                                                                                                         |
| Konjugation              | Unconjugated                                                                                                                                                                |
| NCBI                     | <a href="#">362653</a>                                                                                                                                                      |
| UniProt                  | <a href="#">P55091</a>                                                                                                                                                      |
| Puffer                   | Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300. |
| Expression System        | E. coli                                                                                                                                                                     |
| Formulierung             | Lyophilized powder                                                                                                                                                          |
| Sequenz                  | N-terminal His-Tag, Val30~leu268 (NP_001071117.1)                                                                                                                           |

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| Anwendungsbeschreibung | <p>Elastase 4 (ELA4) is a member of the peptidase S1 family. The encoded protein is a serum calcium-decreasing factor that has chymotrypsin-like protease activity. It regulates activation and degradation of trypsinogens and procarboxypeptidases by targeting specific cleavage sites within their zymogen precursors. Has chymotrypsin-type protease activity and hypocalcemic activity. Besides, Plasminogen Activator, Urokinase Receptor (uPAR) has been identified as an interactor of ELA4, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat ELA4 and recombinant rat uPAR. Briefly, ELA4 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to uPAR-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-ELA4 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of of ELA4 and uPAR was in a dose dependent manner.</p> |
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