

## Human GLO1 ELISA Kit | GLO1 elisa kit

Human GLO1 ELISA Kit PicoKine

|                               |                            |                              |
|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA127961</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

### PRODUCT SYNONYMS

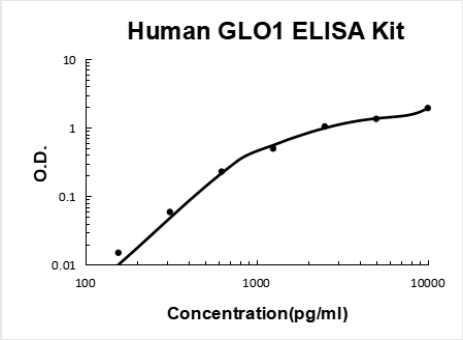
GLO1; Human GLO1 ELISA Kit PicoKine; GLO1 elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Human                                                                                                                                                                                                                                                                                                                                                                                            |
| Samples                                           | cell culture supernatants, serum and plasma (heparin, EDTA)                                                                                                                                                                                                                                                                                                                                      |
| Assay Range                                       | 156pg/ml-10,000pg/ml                                                                                                                                                                                                                                                                                                                                                                             |
| Sensitivity                                       | <10pg/ml                                                                                                                                                                                                                                                                                                                                                                                         |
| Capture antibody and Detection antibody           | a monoclonal antibody from mouse a biotinylated polyclonal antibody from goat                                                                                                                                                                                                                                                                                                                    |
| Immunogen                                         | Expression system for standard: E coli; Immunogen sequence: A2-M184                                                                                                                                                                                                                                                                                                                              |
| Cross Reactivity                                  | There is no detectable cross-reactivity with other relevant proteins.                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for GLO1 elisa kit        | ELISA                                                                                                                                                                                                                                                                                                                                                                                            |
| Kit Components                                    | Description/Quantity<br>Pre-coated 96-well strip microplate/1<br>Standard/2 vials, 10 ng/tube<br>Biotinylated antibody (100x)/100ul<br>Avidin-Biotin-Peroxidase Complex (100x)/100ul<br>Sample Diluent/30ml<br>Antibody Diluent/12ml<br>Avidin-Biotin-Peroxidase Diluent/12ml<br>Color Developing Reagent (TMB)/10ml<br>Stop Solution/10ml<br>Wash Buffer (25x)/20ml<br>Adhesive plate sealers/4 |
| Materials Required But Not Provided               | Microplate Reader capable of reading absorbance at 450nm.<br>Incubator.<br>Automated plate washer (optional).<br>Pipettes and pipette tips capable of precisely dispensing 0.5ul through 1ml volumes of aqueous solutions.<br>Multichannel pipettes are recommended for large amount of samples.<br>Deionized or distilled water.<br>500ml graduated cylinders.<br>Test tubes for dilution.      |
| Sample Data                                       | Concentration(pg/ml)01563126251,2502,5005,00010,000O.D.0.0270.0420.0860.2560.5231.0681.3751.962                                                                                                                                                                                                                                                                                                  |
| Intra Assay Consistency & Inter Assay Consistency | Intra-Assay PrecisionInter-Assay PrecisionSample123123n161616242424Mean(pg/ml)3501269456537813664475Standard deviation19.2565.99164.3419.2861.47214.8CV(%)5.5%5.2%3.6%5.1%4.5%4.8%                                                                                                                                                                                                               |

|                         |                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reproducibility         | LotsLot 1 (pg/ml)Lot 2 (pg/ml)Lot 3 (pg/ml)Lot 4 (pg/ml)Mean (pg/ml)Standard DeviationCV (%)Sample<br>135036537036836318.535.1%Sample 21269130512881283128646.313.6%Sample<br>345654541472046904629282.376.1%*number of samples for each test n=16. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)                                                     |

IMAGES



Standard Curve (Sample)  
Human GLO1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GLO1 elisa kit | The brand Picokine indicates this is a premium quality ELISA kit. Each Picokine kit delivers precise quantification, high sensitivity, and excellent reproducibility. Only our most reliable and effective kits qualify as Picokine, guaranteeing top-tier results for your assays. |
| Product Categories/Family for GLO1 elisa kit   | <a href="#">PicoKine ELISA Kits</a>                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">134039205</a>                                                                                                                                                                                                            |
| NCBI GeneID                      | <a href="#">2739</a>                                                                                                                                                                                                                 |
| UniProt Accession #              | <a href="#">Q04760</a> ; <a href="#">P78375</a> ; <a href="#">Q59EL0</a> ; <a href="#">Q5TZW3</a> ; <a href="#">Q96FC0</a> ; <a href="#">Q96J41</a> ; <a href="#">B2R6P7</a> ; <a href="#">B4DDV0</a>                                |
| Molecular Weight                 | Calculated: 19kDa/20kDa<br>Observed: 21kDa                                                                                                                                                                                           |
| NCBI Official Full Name          | Lactoylglutathione lyase                                                                                                                                                                                                             |
| NCBI Official Synonym Full Names | glyoxalase I                                                                                                                                                                                                                         |
| NCBI Official Symbol             | GLO1                                                                                                                                                                                                                                 |
| NCBI Official Synonym Symbols    | GLYI; GLOD1; HEL-S-74                                                                                                                                                                                                                |
| NCBI Protein Information         | lactoylglutathione lyase; glx I; aldoketomutase; methylglyoxalase; ketone-aldehyde mutase; lactoyl glutathione lyase; glyoxalase domain containing 1; epididymis secretory protein Li 74; S-D-lactoylglutathione methylglyoxal lyase |
| UniProt Protein Name             | Lactoylglutathione lyase                                                                                                                                                                                                             |
| UniProt Gene Name                | <b>GLO1</b>                                                                                                                                                                                                                          |
| UniProt Synonym Gene Names       | Glx I                                                                                                                                                                                                                                |
| UniProt Entry Name               | LGUL_HUMAN                                                                                                                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/glo1/127961>