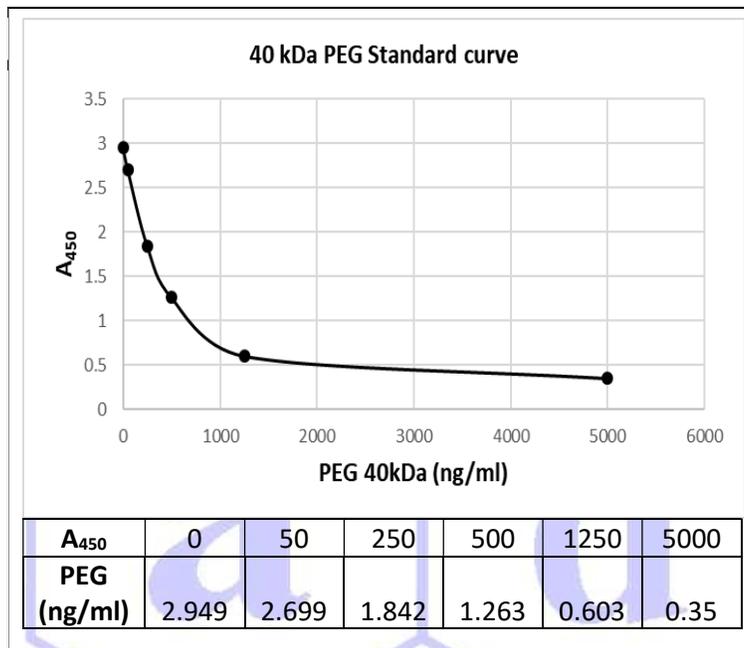


**PEGylated protein ELISA Kit Cat# PEG-005**

The PEGylated protein ELISA Kit is a sensitive competitive ELISA for the measurement of PEGylated protein in serum, plasma, and other appropriately validated matrices.



**PEGylated protein ELISA Kit features**

- PEG protein coated plate, stabilized, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6-12 months.
- Competitive format that works with all formats of PEG including methoxy and non-methoxy, linear and branched, and conjugated and un-conjugated.
- Can detect PEG as small as 1 kDa.
- **Assay length:** 1 hour, 45 mins. 3 incubation steps at room temperature.
- **Dynamic range:** Varies between PEG proteins, typically between 20-10,000 ng/ml
- **Sensitivity:** Varies between PEG proteins, typically between 5-100 ng/ml
- **Storage:** 2-8°C
- **Shelf life:** 6-12 months

Contains all necessary reagents. For in vitro research use only.

**Assay Procedure:** Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipette 50 ul of appropriately diluted samples and calibrators and 50 ul of competitive reagent into wells and incubate for 1 hour at room temperature.
- Step 2.** Wash the wells 3X with 300 ul of wash buffer in each well
- Step 3.** Add 100 ul of detection antibody to each well and incubate for 30 minutes at room temperature
- Step 4.** Wash the wells 3X with 300 ul of wash buffer in each well
- Step 5.** Add 100 ul of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 min.
- Step 6.** Pipette 100 ul of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

**Performance Characteristics**

**Average recovery:** 107.58%

**Average linearity:** 96.47%

**Precision:** Intra-assay: <10% Inter-assay: <10%

**Species cross-reactivity:** Species independent. **Not recommended for use with Mouse serum or plasma samples.**

**Minimum recommended dilutions:**

Serum & Plasma: 10-fold

**Note:** Minimum recommended dilution represents the dilution which is needed to eliminate matrix interference effects. All samples must be diluted to the minimum recommended ratio. Samples may be further diluted if the sample values fall within the standard curve, if sample volume is to be preserved, or if the sample value is above the highest OD on the standard curve

**General Information**

PEGylation is a process of covalent and non-covalent attachment of polyethylene glycol (PEG) polymer chains to molecules such as drugs or therapeutic proteins. The covalent attachment of PEG to a drug or protein can reduce the immunogenicity, antigenicity, and increase the hydrodynamic size which prolong its circulatory time. PEGylation imparts several pharmacological advantages such as improved drug solubility, reduced dosage frequency, extended circulating life, increased drug stability, and enhanced protection from proteolytic degradation. Currently, 15 PEGylated pharmaceuticals have received FDA approval.

**Related Items**

Catalog#	Description
PEG-010 Human Anti-PEG IgG ELISA Kit	PEG-020 Human Anti-PEG IgM ELISA Kit,
PEG-030 Mouse Anti-PEG IgG ELISA Kit	PEG-040 Mouse Anti-PEG IgM ELISA Kit



PEG-050 Monkey Anti-PEG IgG ELISA Kit  
PEG-070 Rat Anti-PEG IgG ELISA Kit

PEG-060 Monkey Anti-PEG IgM ELISA Kit  
PEG-080 Rat Anti-PEG IgM ELISA Kit

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