

Losatuxizumab ELISA Kit

Catalogue No.: abx395010

Losatuxizumab ELISA Kit is a quantitative ELISA kit for detection of Losatuxizumab.

Losatuxizumab is a biosimilar that targets EGFR. EGFR (Epidermal growth factor receptor, HER1, ErbB1) is encoded by the EGFR gene located on chromosome 7 in humans. EGFR belongs to the HER/ERBB family of proteins that includes three other receptor tyrosine kinases, ERBB2, ERBB3, ERBB4. EGFR is a transmembrane receptor and binding of its cognate ligands such as EGF (Epidermal Growth Factor) and TGF alpha (Transforming Growth Factor alpha) to the extracellular domain leads to EGFR dimerization followed by autophosphorylation of the tyrosine residues in the cytoplasmic domain. Phosphorylation of EGFR at certain residues is also mediated by Src-non-receptor kinase. EGFR activation signals multiple downstream signaling cascades such as the Ras - ERK, pi3-K - Akt, Jak - STAT and PKC pathways that help in growth and proliferation of cells. Phosphorylation of EGFR at Y1086 specifically allows binding of the adaptor protein GRB2, leading to activation of the MAPK pathway. Upon receptor activation and signaling, EGFR is endocytosed and targeted for degradation or recycling. Mutations in the EGFR gene are associated with lung cancer and multiple alternatively spliced transcript variants encode different protein isoforms of EGFR have been found. Increased production or activation of EGFR has been associated with poor prognosis in a variety of tumors. Moreover, EGFR overexpression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.

Target: Losatuxizumab

Research Area: Biosimilars

Reactivity: Human

Tested Applications: ELISA

Recommended dilutions: Optimal dilutions/concentrations should be determined by the end user.

Storage: Shipped at 4 °C. Upon receipt, store the kit according to the storage instruction in the kit's manual.

Validity: The validity for this kit is 6 months.

Stability: The stability of the kit is determined by the rate of activity loss. The loss rate is less than 5% within the expiration date under appropriate storage conditions. To minimize performance fluctuations, operation procedures and lab conditions should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same user throughout.

Test Range: 234.38 ng/ml - 15000 ng/ml

Sensitivity: < 17.2 ng/ml

Standard Form: Lyophilized

Detection Method: Colorimetric

Datasheet

Version: 3.0.0

Revision date: 30 Jun 2025



Assay Type: Competitive

Assay Data: Quantitative

Sample Type: Serum, plasma and other biological fluids.

CAS Number: 1801544-27-3

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES.

The range and sensitivity is subject to change. Please contact us for the latest product information. For accurate results, sample concentrations must be diluted to mid-range of the kit. If you require a specific range, please contact us in advance or write your request in your order comments. Please note that our kits are optimised for detection of native samples, rather than recombinant proteins. We are unable to guarantee detection of recombinant proteins, as they may have different sequences or tertiary structures to the native protein.

For Reference Only