

Recombinant Mouse IL-1 α (ELISA Std.)

Catalog # / Size: 580309 / 4 pack

Source: Mouse IL-1 α , amino acids Ser115-Ser270 (Accession # BC003727) was expressed in *E. coli*.

Molecular Mass: The 156 amino acid recombinant protein has a predicted molecular mass of 17,990 Da. The DTT-reduced and the non-reduced protein migrate at approximately 18kDa by SDS-PAGE. The N-terminal amino acid is Serine.

Purity: Purity is >98%, as determined by Coomassie stained SDS-PAGE.

Endotoxin Level: Endotoxin level is <0.1 EU/ μ g (<0.01ng/ μ g) protein as determined by the LAL method.

Preparation: ELISA Standard 4-Pack contains four vials of recombinant mouse IL-1 α at >5 ng per vial. Recommended for ELISA application only. Standards are calibrated against a BioLegend Master Calibrator.

Formulation: Lyophilized in 0.22 μ m filtered protein solution, 10mM NaH₂PO₄, 150mM NaCl, pH 7.2, containing 1% BSA.

Storage: Upon receipt, store unopened vials at 4°C immediately and use within 12 months from date of receipt. Prior to use, reconstitute the lyophilized powder with 0.2 ml of PBS containing a carrier protein (e.g., 1% BSA, protease free), pH7.4. Re-cap vial, vortex. Allow the reconstituted standard to sit at room temperature for 15 minutes, vortex again to mix completely. The reconstituted standard stock solution can be aliquoted into polypropylene vials and stored at -70°C for up to one month. Do not re-use diluted standards. Use a manual defrost freezer and avoid repeated freeze thaw cycles.

Applications:

Applications: ELISA

Recommended Usage: Each lot of this protein is quality control tested by ELISA assay. For use as an ELISA standard, a standard curve comprised of doubling dilutions from 250 pg/ml to 4 pg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: This IL-1 α protein is useful as a standard for a mouse IL-1 α sandwich ELISA, using unlabeled BL1a-72 antibody (catalog #512402) for capture and biotinylated BL1a-89 antibody (catalog #512504) for detection.

Antigen References:

1. Soo DS and Roby KF, *et al. Mol Endocri* 20:2999-3013 2006.
2. Yatabe T, *et al. Ann Rheum Dis* published online 28 Jul 2008.
3. Ledford H *et al, Nature* 450:29-30 2007.
4. Boraschi B Tagliabue A *et al, Vitam Horm* 74:229-254 2006.

Related Products:

Product
Purified anti-mouse IL-1 α
Biotin anti-mouse IL-1 α

Clone
BL1a-72
BL1a-89

Application
ELISA Capture, IP, WB
ELISA Detection, ELISPOT
Detection, IP, WB



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