

Product Datasheet

Human TNF-alpha Protein (orb257883)

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|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog Number | orb257883 |
| Category | Proteins |
| Description | Human TNF-alpha, premium grade is expressed from human 293 cells (HEK293). It contains AA Val 77 - Leu 233 (Accession # P01375-1). |
| Target | TNF-alpha |
| Conjugation | Unconjugated |
| Tag | Native |
| Reactivity | Human |
| Form/Appearance | Powder |
| Buffer/Preservatives | PBS, pH 7.4 |
| Purity | >95% as determined by SDS-PAGE and SEC-MALS. |
| UniProt ID | P01375 |
| MW | 17.4 kDa |
| Tested applications | ELISA, SDS-PAGE |
| Application notes | This protein carries no "tag". The protein has a calculated MW of 17.4 kDa. The protein migrates as 17 kDa \pm 3 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Expression System | HEK293 |
| Endotoxins | Less than 0.01 EU per μ g by the LAL method / rFC method. |

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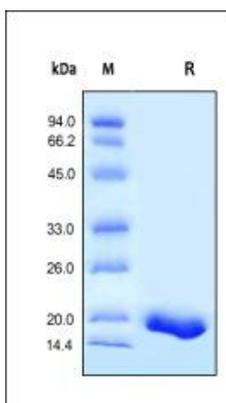
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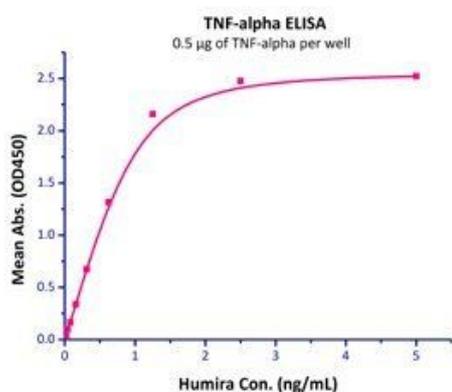
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| | |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expression Region | Val 77 - Leu 233 |
| Storage | -20°C to -70°C for 24 months in lyophilized state;. -70°C for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20°C or lower |
| Note | For research use only |
| Expiration Date | 6 months from date of receipt. |



SDS-PAGE analysis of Human TNF-alpha protein



Line graph illustrates about the sensitivity range of Human TNF-alpha protein using different concentrations

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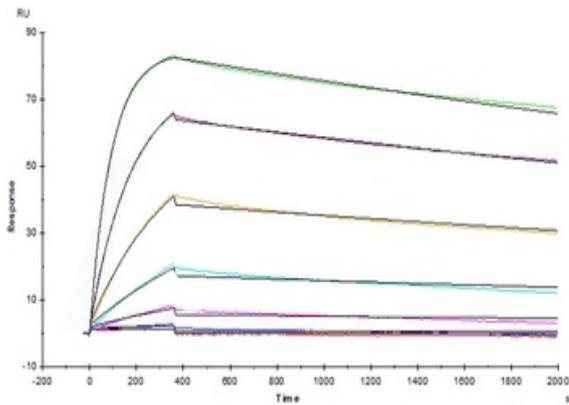
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Humira (Adalimumab) captured on CM5 chip via anti-human IgG Fc antibodies surface, can bind Human TNF-alpha, premium grade (Cat. No. orb257883) with an affinity constant of 0.255 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

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