

Human TL1A/TNFSF15 (hTL1A)

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| MW (kDa): | UniProt ID: | Entrez-Gene Id: |
|------------------------------|--|-----------------|
| 21 | #O95150 | 9966 |
| Background | TL1A (TNFSF15), a member of the TNF superfamily of proteins, is a splice variant of the TL1/VEGI gene (1). Endothelial cells, monocytes, macrophages, and dendritic cells express TL1A, which is upregulated by proinflammatory cytokines, microorganisms, and AMPK activation (1-4). TL1A activates the NF- κ B and JNK pathways through its receptor, DR3 (1,5). TL1A may function as a costimulatory signal for T cell activation, specifically regulating Th17 cell development and proliferation (1,2,6). Mouse models suggest a role for TL1A as a driver for the inflammation and pathogenesis associated with inflammatory bowel disease (7,8). | |
| Endotoxin | Less than 0.01 ng endotoxin/1 μ g hTL1A. | |
| Purity | >95% as determined by SDS-PAGE of 6 μ g reduced (+) and nonreduced (-) recombinant hTL1A. All lots are greater than 95% pure. | |
| Source / Purification | Recombinant Human TL1A Leu72-Leu251 (Accession #NP_095150) was expressed in <i>E.coli</i> at Cell Signaling Technology. | |
| Bioactivity | The bioactivity of hTL1A was determined in a TF-1 cell viability assay. The ED ₅₀ of each lot is between 2-15 ng/ml. | |
| Background References | <ol style="list-style-type: none"> 1. Migone, T.S. et al. (2002) <i>Immunity</i> 16, 479-92. 2. Jones, G.W. et al. (2011) <i>FASEB J</i> 25, 409-19. 3. Zhou, J. et al. (2011) <i>Oncogene</i> 30, 1892-900. 4. Shih, D.Q. et al. (2009) <i>Eur J Immunol</i> 39, 3239-50. 5. Haridas, V. et al. (1999) <i>Oncogene</i> 18, 6496-504. 6. Pappu, B.P. et al. (2008) <i>J Exp Med</i> 205, 1049-62. 7. Meylan, F. et al. (2011) <i>Mucosal Immunol</i> 4, 172-85. 8. Taraban, V.Y. et al. (2011) <i>Mucosal Immunol</i> 4, 186-96. | |

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