

Product Data Sheet

OX40/TNFRSF4 Protein, Human (Biotinylated, HEK293, Fc-Avi)

Cat. No.:	HY-P72404
Synonyms:	ACT35 antigen; TAX transcriptionally-activated glycoprotein 1 receptor; CD134; TNFRSF4; TXGP1L
Species:	Human
Source:	HEK293
Accession:	P43489 (L29-A216)
Gene ID:	7293
Molecular Weight:	60-85 kDa

PROPERTIES	
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AA Sequence	LHCVGDTYPS NDRCCHECRP GNGMVSRCSR SQNTVCRPCG PGFYNDVVSS KPCKPCTWCN LRSGSERKQL CTATQDTVCR CRAGTQPLDS YKPGVDCAPC PPGHFSPGDN QACKPWTNCT LAGKHTLQPA SNSSDAICED RDPPATQPQE TQGPPARPIT VQPTEAWPRT SQGPSTRPVE VPGGRAVA
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

BackgroundOX40 (TNFRSF4), a member of TNFR superfamily, is a receptor for OX40 Ligand. OX40 is preferentially expressed by T cells,
but also found in natural killer T cells, natural killer cells, neutrophils, and human airway smooth muscle cells. Human OX40
shares <30% aa sequence identity with mouse and rat. Mouse OX40 shares 90% aa sequence identity with rat^[1].
OX40 Ligand can activate OX40 and thereby functioning as a T cell co-stimulatory molecule. The OX40-OX40 Ligand
interaction promotes effector T-cell survival and effectively induces memory T-cell generation, as well as enhances the
helper function of Tfh for B cells, and also promotes the differentiation and maturation of DCs^{[1][2]}.
The interaction between OX40 Ligand with OX40 is essential for the generation of antigen-specific memory T cells, and

induces host antitumor immunity^[3]. But the over-upregulation of OX40 and OX40L may induce abnormal activation of Tfh cells and excessive production of autoantibodies, which leads to autoimmune disease^[1].

REFERENCES

[1]. Kaur D, et al. OX40/OX40 ligand interactions in T-cell regulation and asthma. Chest. 2012 Feb;141(2):494-499.

[2]. Fu N, et al. The OX40/OX40L Axis Regulates T Follicular Helper Cell Differentiation: Implications for Autoimmune Diseases. Front Immunol. 2021 Jun 21;12:670637.

[3]. Buglio D, et al. HDAC11 plays an essential role in regulating OX40 ligand expression in Hodgkin lymphoma. Blood. 2011 Mar 10;117(10):2910-7.

[4]. Kotani A, et al. Signaling of gp34 (OX40 ligand) induces vascular endothelial cells to produce a CC chemokine RANTES/CCL5. Immunol Lett. 2002 Oct 21;84(1):1-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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