

Screening Libraries

Proteins

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Product Data Sheet

OX40 Ligand/TNFSF4 Protein, Mouse (HEK293, His)

Cat. No.: HY-P72497

Synonyms: Tumor necrosis factor ligand superfamily member 4; OX40 ligand; OX40L; CD252; Tnfsf4

Species: Mouse
Source: HEK293

Accession: P43488 (S51-L198)

Gene ID: 22164

Molecular Weight: 20-23 kDa

PROPERTIES

	uence

SSSPAKDPPI QRLRGAVTRC EDGQLFISSY KNEYQTMEVQ NNSVVIKCDG LYIIYLKGSF FQEVKIDLHF REDHNPISIP MLNDGRRIVF TVVASLAFKD KVYLTVNAPD TLCEHLQIND

GELIVVQLTP GYCAPEGSYH STVNQVPL

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. 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

Background

OX40 Ligand (TNFSF4) is a type II glycoprotein with a cytoplasmic tail of 23 aa and an extracellular domain of 133 aa^[1]. OX40 Ligand is expressed on antigen-presenting cells, such as B cells, dendritic cells (DCs), and macrophages, and airway smooth muscle cells^[3]. OX40 Ligand is a ligand for TNFRSF4 (CD134), belongs to tumor necrosis factor (TNF) family. 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]}. Mouse OX40 Ligand shares 81.31% aa sequence identity with rat, and shares <70% aa sequence identity with human. The interaction between OX40 Ligand with OX40 is essential for the generation of antigen-specific memory T cells, and

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induces host antitumor immunity^[4]. OX40 Ligand is critical for Th1 and Th2 responses in mice allergic inflammation^[5].

REFERENCES

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- [3]. Croft M, et al. The significance of OX40 and OX40L to T-cell biology and immune disease. Immunol Rev. 2009 May;229(1):173-91.
- [4]. 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
- [5]. Arestides RS, et al. Costimulatory molecule OX40L is critical for both Th1 and Th2 responses in allergic inflammation. Eur J Immunol. 2002 Oct;32(10):2874-80.
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Caution: Product has not been fully validated for medical applications. For research use only.

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