Proteins



Product Data Sheet

TNFRSF3/LTBR Protein, Rat (HEK293, His)

Cat. No.: HY-P75918

Tumor Necrosis Factor Receptor Superfamily Member 3; TNF-RIII; TNFCR; TNFR3 Synonyms:

Species:

HEK293 Source:

Accession: Q5U2S8 (S28-A218)

Gene ID: 297604

Molecular Weight: Approximately 30-37 kDa due to glycosylation

PROPERTIES

AA Sequence		
	SQPQLVPPYR IENQTCWDPD KEYYEPLHQV CCSRCPPGKF	
	VHAVCSPSQD TVCKTCLHNS YNEHWNHLFS CQLCRPCDSV	
	LGFEEIAPCT SDRKPECRCK PGMSCVYLDN ECVHCEEERL	
	VLCRPGTEAE VTDEIMDTEV NCVPCKPGHF QNTSSPRARC	
	QPHTRCESQG LVEAASGTSY SDTICKNPPE A	
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Rat TNFRSF3 at 5 μg/mL (100 μL/well) can bind	
	biotinylated Human LIGHT. The ED ₅₀ for this effect is 35.04 ng/mL.	
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.	
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.	

DESCRIPTION

Shipping

Background

Lymphotoxin beta receptor (LTBR), also known as tumor necrosis factor receptor superfamily member 3 (TNFRSF3), is a member of the tumor necrosis factor receptor superfamily and a cell surface receptor for lymphotoxins involved in apoptosis and cytokine release. LTBR is expressed on the surface of most cell types, including breast, colorectal, lung, gastric, melanoma, and bladder cancers, while its ligands lymphotoxin (LT) a1b2 and TNF superfamily member 14

Room temperature in continental US; may vary elsewhere.

(TNFSF14; also known as LIGHT), are mainly expressed on the surface of immune cells. The LTBR signaling pathway may be involved in the activation of responses that control cell differentiation, growth and death, as manifested by the formation of peripheral lymphoid-like organs, especially secondary and tertiary lymphoid structures critical for tissue, dendritic cell homeostasis, liver regeneration, interferon response to pathogens and death in mucosa-derived carcinomas. LT β R signaling may facilitate communication between infiltrating immune cells and tumor cells. Triggering LT β R induces typical and atypical nuclear factor (NF)- κ B signaling pathways that are associated with inflammation-induced oncogenic effects. Sustained LT β R signaling also leads to NF- κ B-mediated chronic inflammation and the development of hepatocellular carcinoma (HCC)^{[1][2]}.

REFERENCES

[1]. Norris PS, et al. The LT beta R signaling pathway. Adv Exp Med Biol. 2007;597:160-72.

[2]. Mo Shen, et al. Lymphotoxin β receptor activation promotes mRNA expression of RelA and pro-inflammatory cytokines TNF α and IL-1 β in bladder cancer cells. Mol Med Rep. 2017 Jul;16(1):937-942.

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

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