

Product Data Sheet

Screening Libraries

Inhibitors

Proteins

GARP (Mutated)&Latent TGF Beta Complex Protein, Human (HEK293, His-Avi)

Cat. No.: HY-P77676

Synonyms: LRRC32; GARP; LAP; TGF-beta-1; LRRC32&TGF-beta 1; LRRC32&TGFB1

Species: HEK293 Source:

Accession: Q14392 (H20-L628, Y137H, S138G, G139N)&P01137 (L30

Gene ID: 2615&7040 75-80 kDa Molecular Weight:

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Appearance	Solution.	
Formulation	Supplied as a 0.22 μm filtered solution of PBS, pH 7.4.	
Endotoxin Level	<1 EU/μg, determined by LAL method.	
Reconsititution	N/A.	

extended storage. Avoid repeated freeze-thaw cycles.

Shipping Shipping with dry ice.

DESCRIPTION

Storage & Stability

Background

LRRC32, a crucial regulator of transforming growth factor beta (TGFB1, TGFB2, and TGFB3), plays a pivotal role in controlling TGF-beta activation by maintaining it in a latent state during extracellular storage. Specifically associating with the Latencyassociated peptide (LAP), the regulatory chain of TGF-beta, LRRC32 exerts its regulatory influence on integrin-dependent TGF-beta activation. Notably, LRRC32 competes effectively with LTBP1 for LAP binding, further modulating TGF-beta activation. Its significance extends to the regulation of TGF-beta-1 (TGFB1) activation on the surface of activated regulatory T-cells (Tregs). Moreover, LRRC32's involvement is essential for epithelial fusion during palate development, where it regulates the activation of TGF-beta-3 (TGFB3). Interacting directly with TGFB1, TGFB2, and TGFB3, LRRC32's association with LAP regulates the activation of TGF-beta-1 and TGF-beta-3, highlighting its intricate role in fine-tuning TGF-beta signaling. Additionally, LRRC32 interacts with LAPTM4B, contributing to the reduction of TGFB1 production in regulatory Tcells.

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for

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

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