

Biotinylated Cynomolgus ALPI Protein; His-Avi Tag

Product Information

Product Name	Biotinylated Cynomolgus ALPI Protein; His-Avi Tag
Storage temp.	Store at \leq -70°C, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-85155RP-25 / 25 μg GM-85155RP-200 / 200 μg

Protein Information

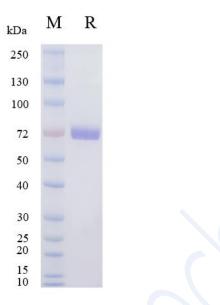
Alternative Names	IAP
Source	Biotinylated Cynomolgus ALPI Protein; His-Avi Tag (GM-85155RP) is
	expressed from human 293 cells (HEK-293). It contains AA Ile20-Asp502
	(Accession # A0A2K5VFX3).
	This protein carries a His-Avi tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	$< 1 \text{ EU/}\mu g$, determined by LAL gel clotting assay
Predicted Mol Mass	56.9 KDa
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.
Description	Intestinal alkaline phosphatase (ALPI) is an enzyme primarily encoded by the
	ALPI gene in the human body. This enzyme is mainly present in the small
	intestine and the liver, and can also be found in other tissues, although in smaller
	amounts. The main function of intestinal alkaline phosphatase in the small
	intestine is to assist in the digestion and absorption of phosphates and fats from
	food. Additionally, it is used as one of the clinical diagnostic markers for detecting
	intestinal diseases or bone disorders. Research on ALPI in human diseases also
	suggests that it may play a role in certain intestinal diseases and inflammatory
	processes. IAP is essential for lipids absorption and is involved in reducing
	inflammation. IAP suppresses inflammation, particularly by modifying the gut
	microflora and dephosphorylating LPS. Any alteration in IAP expression and
	activity increases the vulnerability to inflammation. Inflammatory bowel disease
	(IBD) is an indication of a condition where the patient's endogenous IAP

(IBD) is an indication of a condition where the patient's endogenous IAP production and activity are reduced. Exogenous IAP injection may be a good option for treating IBD and other disorders caused by the disruption of gut microbiota.

Version:3.3 Revision Date:25/12/2023



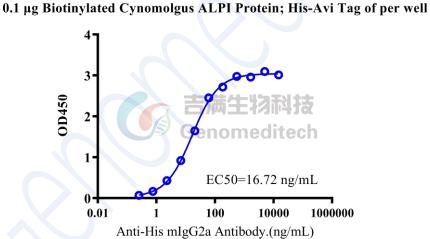
SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Biotinylated Cynomolgus ALPI Protein; His-Avi Tag, ELISA

Bioactivity-ELISA



Biotinylated Cynomolgus ALPI Protein; His-Avi Tag (Catalog # GM-85155RP) was immobilized at 1 µg/ml (100 µL/well) on streptavidin precoated. Increasing concentrations of Anti-His mIgG2a Antibody (Catalog # GM-59493AB) were added.