

Rev01
Update: Apr,07,2025

DATASHEET

TPM1, His, Human

Cat. No.: Z05909

Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as determined by BisTris PAGE > 90% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Expression System	E.coli
Theoretical Molecular Weight	34.26 kDa
Apparent Molecular Weight	The protein has a predicted MW of 34.26 kDa same as Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS, 150mM NaCl (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Tropomyosin-1 (TPM1), a widely expressed actin-binding protein, is downregulated in many tumors and associated with cancer progression. TPM1 overexpression in RCC cell lines can induce tumor cell apoptosis via the p53-mediated mitochondrial pathway. Further studies are needed to fully elucidate the potential of TPM1 as a candidate for RCC targeted therapy in the future.

Synonyms : C15orf13; TMSA; CMD1Y; CMH3; HTM-alpha; LVNC9

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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