Human AMIGO2 Protein

Cat. No. AMI-HM102

Description

Source	Recombinant Human AMIGO2 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Val40-Thr398.
Accession	Q86SJ2
Molecular Weight	The protein has a predicted MW of 42 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

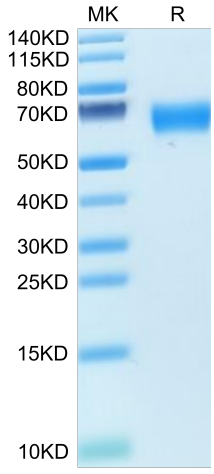
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Bromodomain and extraterminal domain inhibitors (BETi) represent promising therapeutic agents for metastatic melanoma, yet their mechanism of action remains unclear. Here we interrogated the transcriptional effects of BETi and identified AMIGO2, a transmembrane molecule, as a BET target gene essential for melanoma cell survival. AMIGO2 is upregulated in melanoma cells and tissues compared to human melanocytes and nevi, and AMIGO2 silencing in melanoma cells induces G1/S arrest followed by apoptosis.

Assay Data

Tris-Bis PAGE



Human AMIGO2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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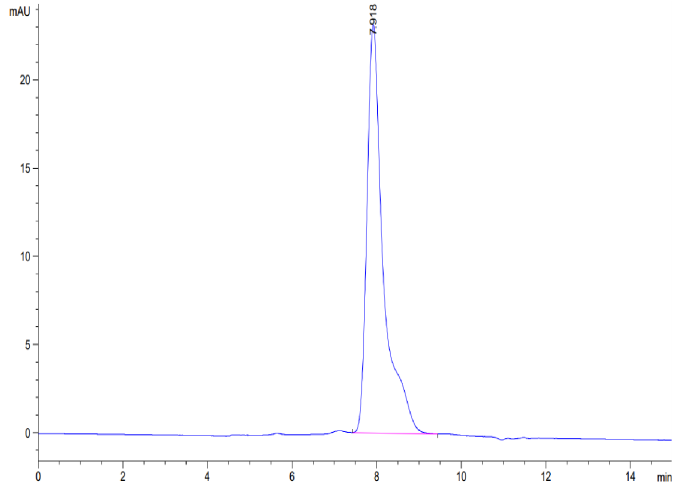
Assay Data



The purity of Human AMIGO2 is greater than 95% as determined by SEC-HPLC.