

For Research Use Only

Recombinant Human IBSP protein (His Tag)



Catalog Number: Eg4999

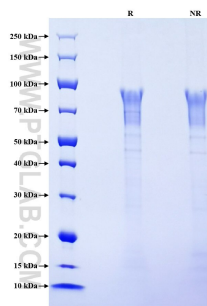
Basic Information	Species: Human	Purity: >85 %, SDS-PAGE	Tag: His Tag
Technical Specifications	Purity: >85 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human IBSP protein Phe17-Gln317 (Accession# P21815) with a His tag at the C-terminus. GeneID: 3381 Accession: P21815 Predicted Molecular Mass: 34.6 kDa SDS-PAGE: 60-90 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Integrin-binding sialoprotein (IBSP), also known as Bone sialoprotein 2 (BSP2), is a glycoprotein that is mainly expressed in bone tissue. IBSP participates the coding of bone matrix and has a large influence on the formation, update, and repair of bones. High levels of IBSP have been found in various types of cancer, including colorectal cancer breast, esophageal squamous cell carcinoma. IBSP plays a significant role in tumor growth, invasion, and metastasis by promoting angiogenesis, cell migration and adhesion, and immune micro environment.		
References	1.Chen Y. et al. (2021) Cancer Med. 10(12):4030-4045. 2.Pan B. et al. (2023) Front Immunol. 14:1188256. 3.Ma Y. et al. (2023) Aging (Albany NY). 16(1):28-42. 4.Ding W. et al. (2024) Cancer Rep (Hoboken). 7(8):e2153.		
Synonyms	BNSP, Bone sialoprotein 2, Bone sialoprotein II, Cell binding sialoprotein, integrin binding sialoprotein		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human IBSP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.