

RYBP Protein, Human (sf9, His-GST)

Cat. No.:	HY-P74590
Synonyms:	RING1 and YY1-binding protein; APAP-1; RYBP; DEDAF; YEAF1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8N488 (M1-F228)
Gene ID:	23429
Molecular Weight:	Approximately 58 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol, 0.5 mM PMSF. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	TIMP-4, a key regulatory protein, forms complexes with metalloproteinases, including collagenases, exerting its inhibitory effect by irreversibly binding to their catalytic zinc cofactors. This interaction is known to specifically impact metalloproteinases such as MMP-1, MMP-2, MMP-3, MMP-7, and MMP-9. Through this binding mechanism, TIMP-4 plays a crucial role in modulating the activity of these metalloproteinases, contributing to the fine-tuned regulation of extracellular matrix remodeling and proteolytic processes in various physiological contexts.
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Caution: Product has not been fully validated for medical applications. For research use only.

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