

## RIZ1 Protein, Human

Cat. No.:	HY-P76579
Synonyms:	PR domain zinc finger protein 2; MTB-ZF; Zinc finger protein RIZ; PRDM2; KMT8; RIZ
Species:	Human
Source:	E. coli
Accession:	Q13029 (M1-A200)
Gene ID:	7799
Molecular Weight:	Approximately 26 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, 0.5 mM DTT, 0.5 mM GSH, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> 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	RIZ1 protein serves as an S-adenosyl-L-methionine-dependent histone methyltransferase, demonstrating specificity in methylating 'Lys-9' of histone H3. Beyond its histone modification role, RIZ1 may also function as a DNA-binding transcription factor, with an affinity for the macrophage-specific TPA-responsive element (MTE) within the HMOX1 (heme oxygenase 1) gene. In this context, it is implicated as a potential transcriptional activator for HMOX1, suggesting a regulatory role in the expression of this gene.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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