

Product Data Sheet

Transcription termination factor Rho Protein, E.coli (His)

Cat. No.:	HY-P71705
Synonyms:	rho; nitA; psuA; rnsC; sbaA; tsu; b3783; JW3756; Transcription termination factor Rho; ATP- dependent helicase Rho
Species:	E.coli
Source:	E. coli
Accession:	P0AG30 (M1-S419)
Gene ID:	948297
Molecular Weight:	Approximately 51.0 kDa

PROPERTIES

AA Sequence					
	ΜΝΙΤΕΙΚΝΤΡ	VSELITLGEN	MGLENLARMR	KQDIIFAILK	
	QHAKSGEDIF	GDGVLEILQD	GFGFLRSADS	SYLAGPDDIY	
	VSPSQIRRFN	LRTGDTISGK	IRPPKEGERY	FALLKVNEVN	
	FDKPENARNK	ILFENLTPLH	ANSRLRMERG	NGSTEDLTAR	
	VLDLASPIGR	GQRGLIVAPP	KAGKTMLLQN	ΙΑQSΙΑΥΝΗΡ	
	DCVLMVLLID	ERPEEVTEMQ	RLVKGEVVAS	TFDEPASRHV	
	QVAEMVIEKA	KRLVEHKKDV	IILLDSITRL	ΑΓΑΥΝΤΥΥΡΑ	
	SGKVLTGGVD	ANALHRPKRF	FGAARNVEEG	GSLTIIATAL	
	IDTGSKMDEV	IYEEFKGTGN	MELHLSRKIA	EKRVFPAIDY	
	NRSGTRKEEL	LTTQEELQKM	WILRKIIHPM	GEIDAMEFLI	
	NKLAMTKTND	DFFEMMKRS			
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6%Trehalose, pH 8.0.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	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). recommended to freeze aliquots at -20°C or -80°C for extended storage.				
Shipping	Room temperature in continental US; may vary elsewhere.				

DESCRIPTION	
Background	The Transcription termination factor Rho protein, crucial for the regulation of gene expression, facilitates transcription termination through a well-defined mechanism. This process involves Rho binding to the nascent RNA, activation of Rho's

RNA-dependent ATPase activity, and subsequent release of the mRNA from the DNA template. As an RNA-dependent NTPase, Rho utilizes all four ribonucleoside triphosphates as substrates, highlighting its versatility in nucleotide interactions during the termination process. Notably, the ATPase activity of Rho is susceptible to inhibition by bicyclomycin and dihydrobicyclomycin, providing potential avenues for pharmacological modulation of Rho-mediated transcription termination.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA