

## Nucleolar transcription factor 1/UBTF Protein, Human (His-SUMO)

<b>Cat. No.:</b>	HY-P72282
<b>Synonyms:</b>	NOR 90; UBF1; Upstream binding factor 1; Upstream-binding factor 1
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P17480 (M1-T670)
<b>Gene ID:</b>	7343
<b>Molecular Weight:</b>	Approximately 95.0 kDa

### PROPERTIES

#### AA Sequence

M N G E A D C P T D	L E M A A P K G Q D	R W S Q E D M L T L	L E C M K N N L P S
N D S S K F K T T E	S H M D W E K V A F	K D F S G D M C K L	K W V E I S N E V R
K F R T L T E L I L	D A Q E H V K N P Y	K G K K L K K H P D	F P K K P L T P Y F
R F F M E K R A K Y	A K L H P E M S N L	D L T K I L S K K Y	K E L P E K K K M K
Y I Q D F Q R E K Q	E F E R N L A R F R	E D H P D L I Q N A	K K S D I P E K P K
T P Q Q L W Y T H E	K K V Y L K V R P D	A T T K E V K D S L	G K Q W S Q L S D K
K R L K W I H K A L	E Q R K E Y E E I M	R D Y I Q K H P E L	N I S E E G I T K S
T L T K A E R Q L K	D K F D G R P T K P	P P N S Y S L Y C A	E L M A N M K D V P
S T E R M V L C S Q	Q W K L L S Q K E K	D A Y H K K C D Q K	K K D Y E V E L L R
F L E S L P E E E Q	Q R V L G E E K M L	N I N K K Q A T S P	A S K K P A Q E G G
K G G S E K P K R P	V S A M F I F S E E	K R R Q L Q E E R P	E L S E S E L T R L
L A R M W N D L S E	K K K A K Y K A R E	A A L K A Q S E R K	P G G E R E E R G K
L P E S P K R A E E	I W Q Q S V I G D Y	L A R F K N D R V K	A L K A M E M T W N
N M E K K E K L M W	I K K A A E D Q K R	Y E R E L S E M R A	P P A A T N S S K K
M K F Q G E P K K P	P M N G Y Q K F S Q	E L L S N G E L N H	L P L K E R M V E I
G S R W Q R I S Q S	Q K E H Y K K L A E	E Q Q K Q Y K V H L	D L W V K S L S P Q
D R A A Y K E Y I S	N K R K S M T K L R	G P N P K S S R T T	

**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** <1.0 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.

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## DESCRIPTION

### Background

The Nucleolar transcription factor 1/UBTF protein plays a crucial role in transcriptional activation mediated by RNA polymerase I by recognizing the ribosomal RNA gene promoter and engaging in cooperative interactions with the transcription factor SL1/TIF-IB complex. Specifically binding to the upstream control element, UBTF functions as a homodimer and interacts with various proteins, including TBP, TAF1A, RASL11A, IRS1, PIK3CA, DHX33, PHF6, CEBPA (isoform 1 and isoform 4), DDX11, NOP53, and ALKBH2. These interactions highlight the protein's involvement in diverse cellular processes, emphasizing its regulatory role in ribosomal RNA gene transcription and its association with key factors implicated in transcriptional control and nucleolar function.

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

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