

Product Data Sheet

Biolinker / Av. Prof. Lineu Prestes, 2242 / São Paulo – SP / 05508-000 / Brazil
info@biolinker.tech / www.biolinker.tech
twitter: @biolinker_tech



BioScript Pro Reverse Transcriptase with His-Tag

Product Reference:

BioScript Pro Reverse Transcriptase.

Revision date: 14.05.2021
Version: 1.1

Product Data Sheet

Description	BioScript Pro Reverse Transcriptase.
Synonym(s)	Reverse Transcriptase, Moloney Murine Leukaemia Virus (MMLV), Low RNase H Activity, cDNA Synthesis, cDNA Library Construction, PCR Assay
HS Code:	35040090
Pack Size	5.000 UI/mL (50 microliter)
MW	~71 kDa
Form	Liquid
Shipped in	Wet ice
Storage temp.	-20°C.
Expression System	Recombinant <i>Escherichia coli</i>
Purity	>85% (High-affinity Ni-NTA purification)
Impurities	<1.0 EU/µg protein (LAL test)

Expanded Data Sheet

Construct	BioScript Pro Moloney Murine Leukaemia Virus (MMLV) Reverse Transcriptase with His-Tag.
Mutation	82RRAR685>A, K986P, and V987P

Product Data Sheet

Biolinker / Av. Prof. Lineu Prestes, 2242 / São Paulo – SP / 05508-000 / Brazil
info@biolinker.tech / www.biolinker.tech
twitter: @biolinker_tech



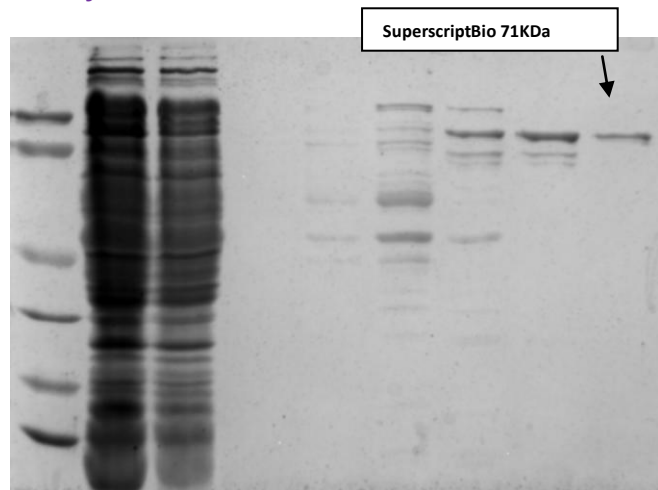
Expanded Data Sheet (continuation)

Tag(s)	C-terminal His-tag
Stability	At least 12 months at -20°C.
Formulation	8 mM phosphate pH 7.4, 110 mM NaCl, 2.2 mM KCl, 20% glycerol
Lot	BL-013
Concentration	10.000 UI/mL
References	Najmudin, Shabir, et al. "Crystal structures of an N-terminal fragment from Moloney murine leukemia virus reverse transcriptase complexed with nucleic acid: functional implications for template-primer binding to the fingers domain." <i>Journal of Molecular Biology</i> 296, 2 (2000): 613-632.

General description

BioScript Pro Reverse Transcriptase with His-Tag is produced by a recombinant *Escherichia coli* expression system, with 682RRAR685>A, K986P, and V987P mutations and encompasses amino acids XX-XX. BioScript Pro Reverse Transcriptase is obtained from an *Escherichia coli* strain containing a mutant MMLV reverse transcriptase gene obtained by eliminating the active center of RNase H through multiple point mutations. The alteration decreases the activity of RNase H and reduces RNA degradation in reverse transcription, which results in enhanced yields. Avoid repeated freeze-thaw cycles to retain maximum performance. After opening, prepare aliquots and store them at -20°C. The protein construct also contains a C-terminal His-tag. The recombinant protein is ≥85% pure

Quality Control Data



Product Data Sheet

Biolinker / Av. Prof. Lineu Prestes, 2242 / São Paulo – SP / 05508-000 / Brazil
info@biolinker.tech / www.biolinker.tech
twitter: @biolinker_tech



(High-affinity Ni-NTA purification).

SDS-Page Coomassie Staining (12%)

Reconstitution

Not applicable.

Storage and Stability

This product is stable at -20°C for up to 12 months from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Disclaimer

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

Data presented is the available current product information and provided as-is. These products have not been tested or verified in any additional applications, sample types, including any clinical use. Experimental conditions must be empirically derived by the user.