

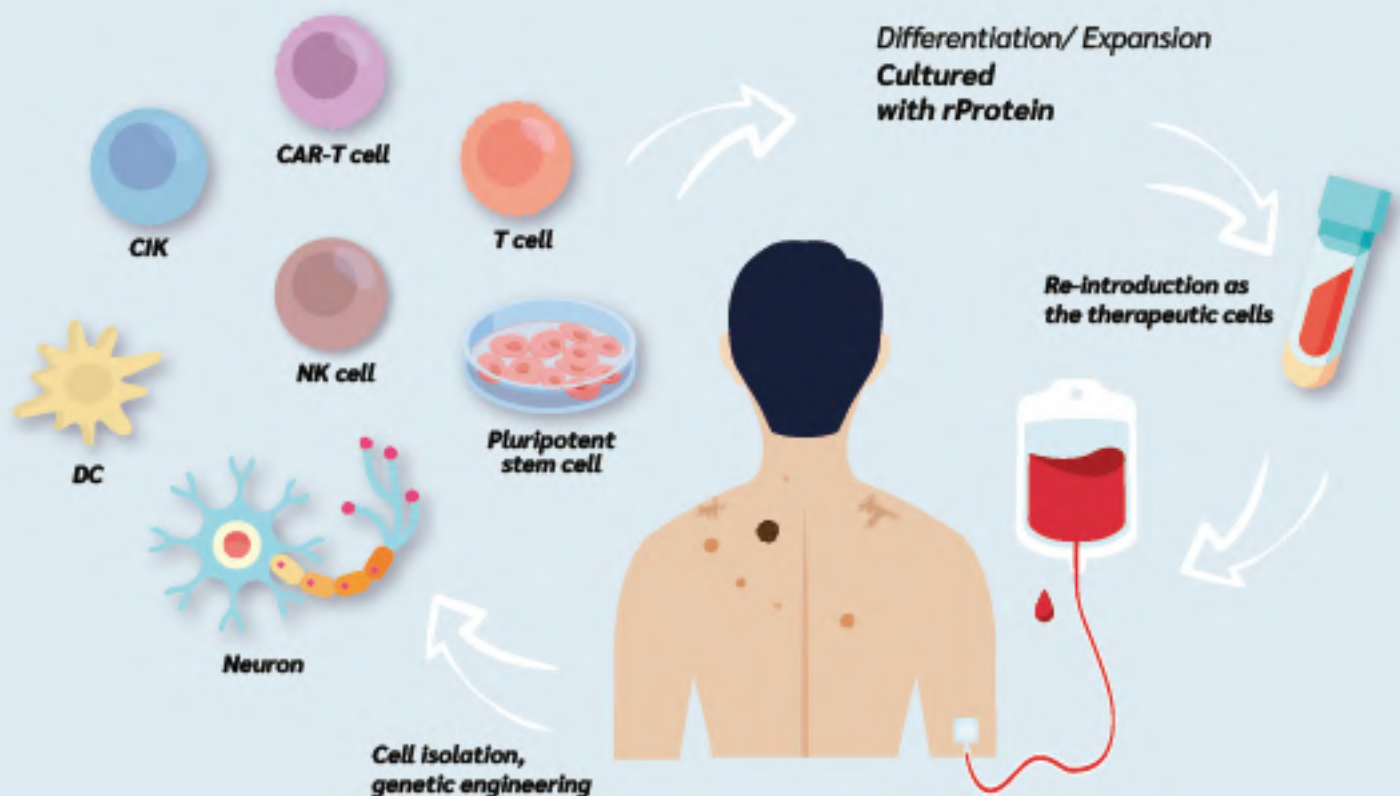


Advancing Healthcare Precision:
**THE KEY ROLE OF MATERIALS
IN CELL THERAPY**

Guided by a heartfelt commitment, we aim to elevate healthcare precision by providing advanced biomaterials for cell therapy. Our mission is to stand beside our customers, fostering progress and positive impact in the healthcare journey.

GMP-grade Recombinant Proteins in the Heart of Cell Therapy Advancements

In the thriving landscape of cell therapies, where researchers and companies eagerly explore transformative possibilities, the anticipation for these therapies to revolutionize disease treatment is palpable. Enter our GMP-grade recombinant proteins - the behind-the-scenes champions creating an ideal environment for cell growth. Committed to advancing precision in healthcare, we lead the way, actively contributing to the exciting journey of turning cell therapy potential into tangible solutions for effective disease treatments.



Croyez GMP-grade recombinant proteins adhere to regulatory standards with excellence.

- Animal-free reagent and laboratory
- Manufactured and tested under GMP guideline
- Testing and traceability of raw material
- Records of the maintenance and equipment calibration
- Personnel training records
- Batch-to-batch consistency
- Documentation of QA control and process changes
- Manufactured and tested under an ISO 13485:2016 certified quality management system
- Stability monitor of product shelf-life



Exceptional GMP Quality Standard

- **Regulatory compliance**
- **Comprehensive QC testing**
 - Identification
 - Concentration
 - Purity
 - **Biological activity**
**against reference standard and (when applicable) against WHO standards*
 - **Endotoxin test**
 - **Sterility test**
 - **Mycoplasma test**
 - **HCP & HCD**
- **Low endotoxin level**
- **High bioactivity**



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Cat#	Product	Package
C01002	Croyez GMP® IL-1 beta, Human	100 µg/ 1mg
C01004	Croyez GMP® IL-2, Human	100 µg/ 1mg
C01005	Croyez GMP® IL-3, Human	100 µg/ 1mg
C01006	Croyez GMP® IL-4, Human	100 µg/ 1mg
C01008	Croyez GMP® IL-6, Human	100 µg/ 1mg
C01009	Croyez GMP® IL-7, Human	100 µg/ 1mg
C01012	Croyez GMP® IL-10, Human	100 µg/ 1mg
C01017	Croyez GMP® IL-15, Human	100 µg/ 1mg
C01023	Croyez GMP® IL-18, Human	1 mg
C01026	Croyez GMP® IL-21, Human	100 µg/ 1mg
C01116	Croyez GMP® GM-CSF, Human	100 µg/ 1mg
C01080	Croyez GMP® IFN gamma, Human	100 µg/ 1mg
C01047	Croyez GMP® TNF alpha, Human	100 µg/ 1mg
C01088	Croyez GMP® TGF beta 1, Human	100 µg/ 1mg
C01119	Croyez GMP® Activin A, Human	1 mg
C01126	Croyez GMP® TPO, Human	100 µg/ 1mg
C01092	Croyez GMP® FGF-2 (154 a.a.), Human	100 µg/ 1mg
C01085	Croyez GMP® Flt-3 Ligand, Human	100 µg/ 1mg
C01177	Croyez GMP® SCF, Human	100 µg/ 1mg
C01176	Croyez GMP® Noggin, Human	100 µg/ 1mg
C01084	Croyez GMP® 4-1BBL, Human	100 µg/ 1mg
C01191	Croyez GMP® EGF, Human	100 µg/ 1mg
C01192	Croyez GMP® Human IL-18 Protein, Tag Free, E. coli	100 µg/ 1mg
C01193	Croyez GMP® Human Activin A Protein, Tag Free, E.	100 µg/ 1mg

Maximizing the Potential of IVT mRNA Materials in Gene Therapy Research.

Since the groundbreaking report in 1990, where the first successful use of in vitro transcribed (IVT) mRNA in animals was documented, scientists have consistently relied on this method for its rapid development, high specificity, simplicity and cost-effectiveness in manufacturing. This enduring approach has played a crucial role in creating innovative therapies and vaccines.

The Workflow of IVT RNA Preparation



Target Design and DNA Template Generation



Plasmid Production, Purification, and Linearization



RNA Synthesis



RNA Purification



Analytics



Formulation



Lab Use/
Industrial

Comprehensive Solutions for IVT RNA Production

- Generate high quality and high purity IVT mRNA
- Flexible formulation buffers to assist you find the optimal condition

Cat#	Product	Package
C15009-K01	NTP Set, 100 mM Solutions	1 mL*4
C15010H-25000U	T7 RNA Polymerase (200 U/ μ L)	25,000 U
C15027-K01	T7 RNA Polymerase Transcription Buffer Set	10,000 U
C15027-K02	*Include buffer A-I (200 U/ μ L)	25,000 U
C15010HA-25000U	T7 RNA Polymerase with buffer A (200 U/ μ L)	25,000 U
C15010HB-25000U	T7 RNA Polymerase with buffer B (200 U/ μ L)	
C15010HC-25000U	T7 RNA Polymerase with buffer C (200 U/ μ L)	
C15010HD-25000U	T7 RNA Polymerase with buffer D (200 U/ μ L)	
C15010HE-25000U	T7 RNA Polymerase with buffer E (200 U/ μ L)	
C15010HF-25000U	T7 RNA Polymerase with buffer F (200 U/ μ L)	
C15010HG-25000U	T7 RNA Polymerase with buffer G (200 U/ μ L)	
C15010HH-25000U	T7 RNA Polymerase with buffer H (200 U/ μ L)	
C15010HI-25000U	T7 RNA Polymerase with buffer I (200 U/ μ L)	
C15022-1ML	ATP Solution (100 mM)	1 mL
C15023-1ML	UTP Solution (100 mM)	1 mL
C15024-1ML	CTP Solution (100 mM)	1 mL
C15025-1ML	GTP Solution (100 mM)	1 mL
C15026-10U	Inorganic Pyrophosphatase (Yeast)	10 U
C15026-50		50 U
C15049-4KU	Murine RNase Inhibitor	4 KU
C15049-20KU		20 KU

A. mRNA capping

RNA Transcript



+Capping enzymes, GTP and SAM

Cap-1 mRNA



- ↑ • Stability
- Initiate translation
- ↓ • Degradation
- Immunogenicity

Cat#	Product	Package
C15037-500U	Vaccine Capping Enzyme	set
C15038-2000U	mRNA Cap 2'-O-Methyltransferase	set
C15050-K01	Vaccinia Capping Kit	set
C15051-K01	S-adenosylmethionine (SAM)	50 µL*10 vials

Key Elements for Improving the Performance of mRNA

B. Modified nucleotide

Synthetic mRNA



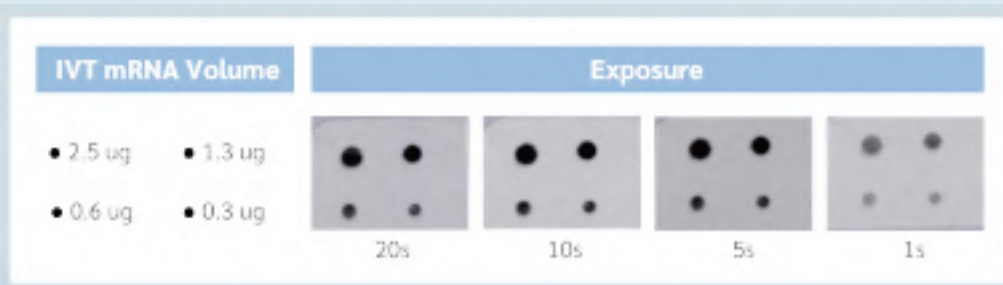
- ↑ • Stability
- Translation efficiency
- ↓ • Degradation
- Immunogenicity

Cat#	Product	Package
C15040-100UL	Pseudo UTP Sodium Solution	100 µL
C15041-100UL	N1-Me-pUTP Sodium Solution	100 µL

The Critical Quality Management of mRNA Purity - dsRNA Detection Assay

Cat#	Product	Package
C15039-200UG	Anti-dsRNA antibody [clone J2]	200 µg

In IVT mRNA-based therapy and vaccine development, maintaining top-quality, pure mRNA is crucial, with the presence of double-stranded RNA impurities posing a concern for inhibiting antigen protein synthesis and triggering unfavorable immunological responses.



Features

- High Sensitivity
- High Specificity
- Cost-effective

Positive Control for Delivery System



Cat#	Product	Package
CR00001	EGFP mRNA (m1ψ substitution)	100 µg/ 1mg
CR00002	EGFP mRNA (unmodified)	100 µg/ 1mg

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Guardians of Health: The Essential Role of Allergen Antigens and Antibodies in Diagnostic Precision

With over 20% of people in developed countries facing allergies, the World Allergy Organization underscores the significance of this issue. Traditional diagnostic methods, like the skin prick test, face doubts regarding accuracy and safety. In response, our allergen antigens and antibodies offer a reliable, precise, and accessible alternative, reshaping the landscape of allergy diagnostics and addressing concerns associated with conventional approaches

Antibody Features

- Monoclonal anti-human IgE antibody
- Stable quality
- Supplying pairs of antibodies and antigens for multiple target allergens

Antigen Features

- Most are recombinant proteins, some are native proteins
- Stable structure and quality
- Able to produce a great quantity in a batch

Applications and Advantages



Category	Target Allergen	ANTIBODY		ANTIGEN	
		Cat#	Product Name	Cat#	Product Name
Food	Peanut	C14002	Monoclonal Anti-Ara h 1 Chimeric Human IgE, clone 16D11	C14029	Recombinant Ara h 1 protein
		C14003	Monoclonal Anti-Ara h 2 Chimeric Human IgE, clone 2G2	C14039	Recombinant Ara h 2 protein
	Diary	C14006	Monoclonal Anti-Bos d 5 Chimeric Human IgE, clone 18B11		
		C14007	Monoclonal Anti-Bos d 6 Chimeric Human IgE clone 12A3	C14042	Bos d 6 protein
		C14008	Monoclonal Anti-Bos d 7 Chimeric Human IgE, clone 1E11	C14043	Bos d 7 protein
		C14009	Monoclonal Anti-Bos d 8 Chimeric Human IgE, clone 25D7	C14040	Recombinant Bos d 8 protein
				C14050	Bos d 8 protein
	Papain	C14012	Monoclonal Anti-Car p 1 Chimeric Human IgE , clone 1C6		
	Fish	C14017	Monoclonal Anti-Gad m 1 Chimeric Human IgE , clone 1F6		
	Egg	C14018	Monoclonal Anti-Gal d 1 Chimeric Human IgE , clone 5G9	C14031	Recombinant Gal d 1 protein
		C14019	Monoclonal Anti-Ovalbumin Chimeric Human IgE , clone 9G5	C14032	Recombinant Gal d 2 protein
				C14047	Gal d 2 protein
		C14020	Monoclonal Anti-Ovalbumin Chimeric Human IgE, clone 8G9	C14032	Recombinant Gal d 2 protein
				C14047	Gal d 2 protein
	Wheat	C14021	Monoclonal Anti-Gal d 3 Chimeric Human IgE, clone 3B2		
		C14022	Monoclonal Anti-Gliadin Chimeric Human IgE, clone 3B7	C14041	Wheat Gliadin protein
		C14049	Monoclonal Anti-Gliadin Chimeric Human IgE , clone 15F6		
Shrimp	C14024	Monoclonal Anti-Pen a 1 Chimeric Human IgE, clone 17F3			
Insect	Bee	C14001	Monoclonal Anti-Api m 1 Chimeric Human IgE, clone 16B8		
	Dust mite (indoor allergen)	C14013	Monoclonal Anti-Der p 1 Chimeric Human IgE , clone 20H4	C14029	Recombinant Der p 1 protein
				C14044	Recombinant Der p 1 protein (mammalian cell)
		C14014	Monoclonal Anti-Der p 2 Chimeric Human IgE, clone 38F9	C14030	Recombinant Der p 2 protein
				C14045	Recombinant Der p 2 protein (mammalian cell)
				C14034	Recombinant Der p 23 protein
			C14035	Recombinant Der f 2 protein	
Plant and animal	Weed pollen	C14004	Monoclonal Anti-Art v 1 Chimeric Human IgE, clone 17H11	C14038	Recombinant Art v 1 protein
	Tree Pollen	C14005	Monoclonal Anti-Bet v 1 Chimeric Human IgE, clone 3B2		
		C14023	Monoclonal Anti-Ole e 1 Chimeric Human IgE, clone 20C7		
		C14026	Monoclonal Anti-Pla a 1 Chimeric Human IgE, clone 8F1		
	Dog	C14010	Monoclonal Anti-Can f 1 Chimeric Human IgE, clone 7A9	C14036	Recombinant Can f 1 protein
		C14011	Monoclonal Anti-Dog Serum Albumin Chimeric Human IgE , clone 16E3		
	Cat	C14015	Monoclonal Anti-Fel d 1 Chimeric Human IgE , clone 19A2	C14037	Recombinant Fel d 1 protein
		C14016	Monoclonal Anti-Fel d 2 Chimeric Human IgE , clone 4G6		
	Grass Pollen	C14025	Monoclonal Anti-Phl p 1 Chimeric Human IgE, clone 3E12	C14039	Recombinant Phl p 1 proteins
Helminth	C14027	Monoclonal Anti-Glutathione S-Transferase Chimeric Human IgE, clone 1B7			
Other	Isotype control	C14028	Monoclonal Chimeric Human IgE Control		

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