Certificate of Analysis

Recombinant Human 4-1BB Ligand

CATALOGUE NO.	LOT NO.	MANUFACTURE	RETEST
TL-PR-130	**L9755-862**	**2026-08-14**	**2028-08-13**

PRODUCT IDENTIFICATION

Product	Recombinant Human 4-1BB Ligand
Family	Recombinant Proteins
Appearance	White to off-white lyophilised powder
Pack size	10 µg
Storage	≤ -20 °C
Shelf life	24 months

TEST RESULTS

Test	Method	Specification	Result	Status
Identity	Peptide mapping / Western blot	Conforms	Conforms	Pass
Purity	SDS-PAGE, densitometry	>= 95.0 %	97.4 %	Pass
Concentration	A280, extinction coefficient	As labelled	Conforms	Pass
Endotoxin	LAL, kinetic turbidimetric	≤ 0.1 EU/µg	0.06 EU/µg	Pass
Sterility	Membrane filtration, 14 days	No growth	No growth	Pass
pH	Potentiometric	7.0 - 7.6	7.2	Pass
Appearance	Visual, against reference	Conforms	Conforms	Pass
Batch record review	Documented release	Complete	Complete	Pass

RELEASE STATEMENT

This lot has been manufactured and tested in accordance with the registered specification and released by Quality Control. Retain samples are held for the shelf-life period plus twelve months. The product is intended for research use or further manufacturing; it is not intended for direct diagnostic use.

Released by - Quality Control

Authorised signatory - Quality Assurance

Representative certificate. The lot-specific COA is issued with your shipment and carries the release signatures; values shown here illustrate the test panel and are not a release record for any specific lot.