

Certificate of Analysis

Product Information

Product Name:	RPL-Gal1	Product Code: L-002-2MG
• Lot Number:	Lot 1	
• Pack Size:	2 mg Supplied in PBS (pH7.2) at 2 mg.mL ⁻¹	
• Storage	Long Term Storage at -80°C Short Term Storage at -20°C	
• Description:	Hexa-His Tagged RPL-Gal1	
– Produced:	Recombinantly Expressed in <i>Escherichia coli</i> .	
– Purified:	Purified by Immobilized Metal Affinity Chromatography (IMAC).	
– Source:	Derived from RPL-αGal (<i>Pseudomonas aeruginosa</i>) through mutagenesis.	
– Molecular Weight:	Monomer MW: 14,066 Da. Exists a dimer under physiological conditions (PBS pH7.2).	

Quality Control Analysis

- **Specificity:** Terminal β-linked Galactose & N-Acetyllactosamine (LacNAc) as assessed by Enzyme Linked Lectin Assay (ELLA).
- **Purity Analysis:** Highly purified (>98%). Homogeneous as determined by:
 - SDS PAGE analysis using Coomassie Blue detection.
 - Gel Permeation Chromatography.
- **Percentage Activity:** >98% as assessed by affinity chromatography.

Usage Guidelines

- Typically utilized in ELLA prepared by dilution in Tris Buffered Saline (pH7.6).
- RPL activity requires metal ions. Buffers must therefore be supplemented with 1mM CaCl₂, MgCl₂ and MnCl₂.
- RPL typically diluted to working concentration of ≤ 5 μg.mL⁻¹ with TBS and incubated for a minimum of 30 minutes prior to use to allow metal complexation.

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