PRODUCT INFORMATION

Recombinant Prokaryotic Lectin-Sia2 (*S. gordonii*)

Item No. 35783

Overview and Properties

Synonym:	RPL-Sia2
Source:	Recombinant His-tagged *S. gordonii* RPL-Sia2 expressed in *E. coli*
Molecular Weight:	40.72517 kDa
Storage:	-80°C (as supplied)
Stability:	≥1 year
Purity:	≥95% estimated by SDS-PAGE
Supplied in:	PBS, pH 7.2

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Recombinant prokaryotic lectin-Sia2 (RPL-Sia2) is a *S. gordonii* lectin expressed in and purified from *E. coli*.[1] It is a monomer under physiological conditions and selectively binds to glycoproteins containing terminal α(2→3)-linked sialic acid (Neu5Ac) groups on O-linked glycans. RPL-Sia2 has been used to detect glycan structures in microarray experiments. RPL-Sia2 activity requires metal ions, therefore, all buffers must be supplemented with 1 mM calcium chloride, magnesium chloride, and manganese chloride. It is recommended to use metal ion-supplemented Tris-buffered saline (TBS), pH 7.6, to dilute RPL-Sia2 to the desired working concentration (≤20 µg/ml). Following dilution, incubate RPL-Sia2 for a minimum of 30 minutes prior to use to allow metal complexation.

Reference

1. Bertok, T., Bertokova, A., Jane, E., *et al.* Identification of whole-serum glycobiomarkers for colorectal carcinoma using reverse-phase lectin microarray. *Front. Oncol.* **11**, 735338 (2021).

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