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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Recombinant Prokaryotic Lectin-Sia1 (*S. gordonii*)

Item No. 35782

Overview and Properties

Synonym:	RPL-Sia1
Source:	Recombinant His-tagged <i>S. gordonii</i> RPL-Sia1 expressed in <i>E. coli</i>
Molecular Weight:	27.40714 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-Sia1 (RPL-Sia1) is an *S. gordonii* lectin expressed in and purified from *E. coli*.^{1,2} It is a monomer under physiological conditions and selectively binds to glycoproteins containing terminal $\alpha(2\rightarrow3)$ -linked sialic acid (Neu5Ac) groups on N- and O-linked glycans. RPL-Sia1 has been used to detect glycan structures in biolayer interferometry experiments. RPL-Sia1 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-Sia1 to the desired working concentration ($\leq 20 \mu\text{g/ml}$). Following dilution, incubate RPL-Sia1 for a minimum of 30 minutes prior to use to allow metal complexation.

References

1. Fernandez-Poza, S., Padros, A., Thompson, R., *et al.* Tailor-made recombinant prokaryotic lectins for characterisation of glycoproteins. *Anal. Chim. Acta* **1155**, 338352 (2021).
2. Glinšek, K., Kramer, L., Krajnc, A., *et al.* Coupling CRISPR interference with FACS enrichment: New approach in glycoengineering of CHO cell lines for therapeutic glycoprotein production. *Biotechnol. J.* e2100499 (2022).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM