

G2S2(α 2,3)N-BSA contents

Catalog #	Description	Size	M. W.	Storage
NG0301	G2S2(α 2,3)N-BSA	50 μ g, lyophilized	~ 83,000	-20°C, up to 12 months

G2S2(α 2,3)N-BSA Biotinylated contents

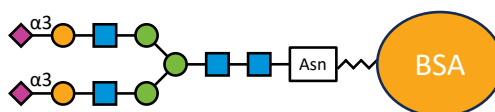
Catalog #	Description	Size	M. W.	Storage
NG0301B	G2S2(α 2,3)N-BSA Biotinylated	50 μ g, lyophilized	~ 85,000	-20°C, up to 12 months

These products are for research use only and not for resale or for any use in the manufacture of a therapeutic or for any diagnostic purpose.

Product Description

Neo-*N*-glycoproteins are proteins conjugated with a single type of asparagine (Asn)-linked *N*-glycan via a linker approximately 40 Å in length. Because they feature well-defined, homogenous *N*-glycans, neo-*N*-glycoproteins have advantages over other natural and recombinant glycoprotein standards.

G2S2(α 2,3)N-BSA (Cat #NG0301 and Cat #NG0301B) is a neo-*N*-glycoprotein derived from Bovine Serum Albumin (BSA) and modified with G2S2(α 2,3)N, a biantennary *N*-glycan with each branch terminating in α 2,3-linked Neu5Ac and the Asn residue retained at the reducing end.



Example applications include Western/lectin blots, ELISA, flow cytometry, lectin microarrays, etc. The biotinylated version (Cat #NG0301B) enables detection using streptavidin conjugates.

Form and Storage

G2S2(α 2,3)N-BSA neo-*N*-glycoprotein is supplied lyophilized in PBS (137 mM NaCl, 2.7 mM KCl, 2 mM KH₂PO₄, 10.1 mM Na₂HPO₄, pH 7.4) and should be reconstituted in 50 μ L molecular grade water to yield a 1 mg/mL solution. Once reconstituted, store at 4°C for up to 1 month or at -20°C for up to 12 months.

Experimental Design Guide

- For ELISA, coat microtiter wells with 1-2 μ g/mL of G2S2(α 2,3)N-BSA (Cat #NG0301) in preferred buffer for 1 h at 37°C. Block wells, then incubate with samples followed by detection reagents.
- For Western/lectin blotting, load 1 μ g of G2S2(α 2,3)N-BSA (Cat #NG0301) alongside your samples in SDS-PAGE. Transfer to nitrocellulose membrane and probe with detection reagents.
- For GlycoSense™ Array Kit (Cat #GK0101) control, use 2-10 μ g/mL of biotinylated G2S2(α 2,3)N-BSA (Cat #NG0301B) in preferred incubation buffer. Detect binding using fluorescent streptavidin conjugate.

Reference

Gao C, et al. Cell Chem Biol. 2019 Apr 18;26(4):535-547. PMID: 30745240