Non Patent Literature 5 discloses a synthesis method for introducing Gal to a bisecting GlcNAc-type glycan by enzymatic chemical synthesis.

Citation List

Non Patent Literature

[0008]

Non Patent Literature 1: Glycobiology (2004) vol. 14, pp. 275-292

Non Patent Literature 2: Chem. Asian J. (2018) vol. 13, pp. 1544-1551

Non Patent Literature 3: Angew. Chem. Int. Ed. (2016) vol. 55, pp. 10487-10492

Non Patent Literature 4: Angew. Chem. Int. Ed. (2018) vol. 57, pp. 14543-14549

Non Patent Literature 5: ChemBioChem (2020) vol. 21, pp. 3212-3215

Summary

[0008a] In one aspect, the present disclosure provides a complex-type glycoasparagine derived from an avian antibody, the complex-type glycoasparagine having a bisecting GlcNAc structure and a core fucose structure, wherein an Asn residue is optionally protected.

[0008b] In another aspect, the present disclosure provides a method for producing a complex-type glycoasparagine, comprising the steps of: providing a

mixture containing a complex-type glycoasparagine derived from an avian antibody; and purifying the complex-type glycoasparagine by allowing the mixture to pass through an anion exchange resin, wherein in the purification step, the complex-type glycoasparagine is separated on the basis of the number of sialic acid residues.

Technical Problem

[0009] However, Non Patent Literatures 1 to 5 disclose neither chemical synthesis of a complex-type glycoasparagine having a bisecting GlcNAc structure and a core fucose structure nor isolation of a complex-type glycoasparagine having a bisecting GlcNAc structure and a core fucose structure.