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**RITA-201-GIRI Project - Guidelines for**



noted as Aribam Syam Sharma, Mr. 70. Sialyltransferases from rat brain: structure and product specificity. The biosynthesis of sialyl-terminating glycoconjugates begins with the transfer of CMP-sialic acid to the terminal alpha-N-acetylglucosamine residue of a glycoconjugate. The rat brain contains at least three enzymes capable of forming this linkage: CMP-N-acetylneuraminic acid:glycoprotein sialyltransferase, CMP-N-

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acetylneuraminic

acid:mannosyltransferase, and  
galactose:protein sialyltransferase.

The three enzymes are similar in catalytic properties. In addition, each catalyzes both formation of sialyl-terminating glycoconjugates and removal of sialic acid to liberate the sialyl-terminating glycoprotein from the neuronal plasma membrane. Here

we report the purification and characterization of the rat brain CMP-sialic acid:glycoprotein

sialyltransferase. The protein is not glycosylated, and the calculated molecular weight is 84,000. The protein binds 2,3,4-tri-O-acetyl-N-acetylneuraminic acid and is effectively covalently coupled to

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concanavalin A-Sepharose. The enzyme prefers alpha-N-acetylneuraminic acid as the sialic acid donor in vitro, and the M(r) of the sialic acid is estimated at M(r) = 897 by amino acid analysis and HPLC. Thus, CMP-sialic acid:glycoprotein sialyltransferase appears to correspond to the previously characterized CMP-N-acetylneuraminic acid:glycoprotein sialyltransferase. The enzyme has a lower affinity for the hydrolysis product, CMP, than CMP-N-acetylneuraminic acid:glycoprotein sialyltransferase. Thus, CMP-sialic acid:glycoprotein sialyltransferase and CMP-N-acetylneuraminic acid:glycoprotein sialyltransferase are

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likely to correspond to the CMP-N-acetylneuraminic acid:glycoprotein sialyltransferase and CMP-N-acetylneuraminic acid:mann

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