

[heparan sulfate]-glucosamine 3-sulfotransferase 3

Cat. No. EXWM-3390 Lot. No. (See product label)

Introduction	
Description	Two major substrates contain the tetrasaccharides: \rightarrow undetermined 2-sulfo-uronic acid \rightarrow GlcN2S \rightarrow IdoA2S \rightarrow GlcN* \rightarrow and \rightarrow undetermined 2-sulfo-uronic acid \rightarrow GlcN2S \rightarrow IdoA2S \rightarrow GlcN6S* \rightarrow (symbols as in 2-Carb-38) with modification of the N-unsubstituted glucosamine residue (shown with an asterisk). Modification of selected sequences containing N-sulfo-glucosamine residues cannot yet be excluded. The 3-O-sulfated heparan sulfate can be utilized by Herpes simplex virus type 1 as an entry receptor to infect the target cells. There are two isozymes, known as 3-OST-3A and 3-OST-3B, which have identical catalytic domains but are encoded by different mammalian genes. The specificity of this enzyme differs from that of the other [heparan sulfate]-glucosamine 3-sulfotransferases. It is inefficient at modifying precursors of the antithrombin binding site [in contrast to EC 2.8.2.23 ([heparan sulfate]-glucosamine 3-sulfotransferase 1)] and it does not modify glucosamine preceded by GlcA2S [unlike EC 2.8.2.29 ([heparan sulfate]-glucosamine 3-sulfotransferase 2)].
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 2.8.2.30
Reaction	3'-phosphoadenylyl sulfate + [heparan sulfate]-glucosamine = adenosine 3',5'- bisphosphate + [heparan sulfate]-glucosamine 3-sulfate
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.