Product Name: Fondaparinux Sodium
Product Number: F044
CAS Number: 114870-03-0
Molecular Formula: C$_{31}$H$_{43}$N$_3$O$_{49}$S$_8$·10Na
Molecular Weight: 1728.08
Form: Powder
Appearance: White to off-white powder
Solubility: Sparingly soluble in water. Insoluble in ethanol.
Source: Synthetic
Storage Conditions: -20°C
Description: Fondaparinux Sodium is the sodium salt of Fondaparinux, a synthetic sulfated pentasaccharide antithrombotic anticoagulant. It has 5 monomeric sugar units that are identical to the those isolated after cleavage of the polymeric glycosaminoglycan heparin. The sequence in heparin is thought to form the binding site for the natural anti-coagulant factor antithrombin III (ATIII) as binding to this site increases the anti-coagulant activity of ATIII by a factor of 1000-fold. Fondaparinux Sodium is a Factor Xa inhibitor. The compound is sparingly soluble in water.

Mechanism of Action: Fondaparinux Sodium binds antithrombin and induces a conformational change in antithrombin. It inhibits Factor Xa which is the activated form of the coagulation factor thrombokinase (Stuart-Prower factor). By binding to this site, it accelerates the rate at which antithrombin (ATIII) neutralizes Factor Xa. Neutralization of Factor Xa decreases conversion of prothrombin to thrombin. Disruption of the coagulation cascade prevents thrombin formation.

References:


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