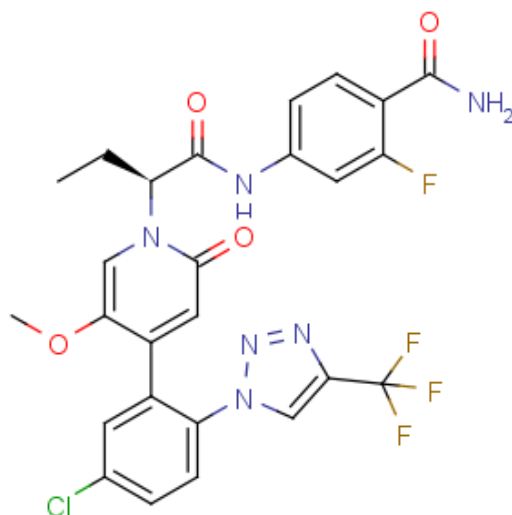


**Name: Asundexian Cat#: EX-A6019**

Target: Factor Xa

Pathway: Metabolic Enzyme/Protease

Chemical Structure:



Chemical Name	(S)-4-(2-(4-(5-chloro-2-(4-(trifluoromethyl)-1H-1,2,3-triazol-1-yl)phenyl)-5-methoxy-2-oxopyridin-1(2H)-yl)butanamido)-2-fluorobenzamide		
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Molecular Weight	592.93	Storage	3 years -20°C powder
Formula	C <sub>26</sub> H <sub>21</sub> ClF <sub>4</sub> N <sub>6</sub> O <sub>4</sub>		6 months -80°C in solvent Away from moisture
CAS No.	2064121-65-7	Synonyms	BAY2433334

Solubility (25°C) *	In vitro	DMSO	Soluble in DMSO, >100mg/mL (421.65 mM)
		Ethanol	N/A
		Water	N/A
	In vivo (should be freshly prepared each time)		

\* &lt;1 mg/ml means slightly soluble or insoluble.

\* Please note that Selleck tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

## Preparing Stock Solutions:

Concentration	Mass		
	Volume	1 mg	5 mg
1 mM	1.6865 mL	8.4327 mL	16.8654 mL
5 mM	0.3373 mL	1.6865 mL	3.3731 mL
10 mM	0.1687 mL	0.8433 mL	1.6865 mL

DMSO : \*The above data is based on the product molecular weight 482.80.

## Biological Activities:

<b>Description</b>	Asundexian (BAY2433334) is an orally active coagulation factor X <sub>IIa</sub> (FXIIa) inhibitor. Asundexian binds directly, potently, and reversibly to the active site of FXIIa and thereby inhibits its activity. Asundexian inhibits human FXIIa in buffer with an IC <sub>50</sub> of 1 nM <sup>[1]</sup> .
<b>In Vivo</b>	Asundexian displays potent anticoagulant activity in vitro in human and rabbit plasma and antithrombotic efficacy in vivo in a rabbit arterial thrombosis model <sup>[1]</sup> .

<b>References</b>	[1]. Thomas D, et al. First evaluation of the safety, pharmacokinetics, and pharmacodynamics of BAY 2433334, a small molecule targeting coagulation factor X <sub>IIa</sub> . J Thromb Haemost. 2021;19(10):2407-2416.
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