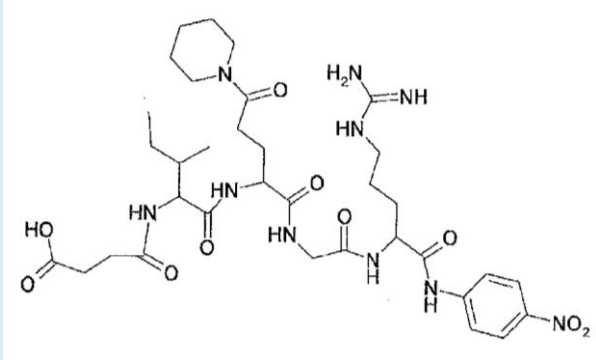
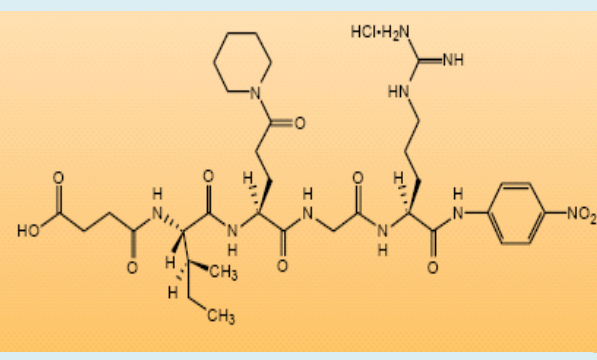


COMPARISON OF CHARACTERISTICS AND PERFORMANCES OF FXa CHROMOGENIC SUBSTRATE (HYPHEN BioMed CS-11(32))

	HYPHEN BioMed	Chromogenix										
Product name	BIOPHEN CS-11(32)	S2732										
Product reference	A229011	-										
Specificity	Recommended substrate for Factor Xa.	Chromogenic substrate for FXa.										
Peptide sequence	Suc-Ile-Glu (gamma-pip)-Gly-Arg-pNA, HCl	Suc-Ile-Glu (gamma-pip)-Gly-Arg-pNA, HCl										
Developed name	Succinyl-L-Isoleucyl-L-Glutamate (gamma-piperidyl)- L-Glycyl-L-Arginine-para-nitroaniline, -hydrochloride	Succinyl-L-Isoleucyl-L-Glutamate (gamma-piperidyl)- L-Glycyl-L-Arginine-para-nitroaniline, -hydrochloride										
Chemical structure	 <p>C₃₄H₅₂N₁₀O₁₀, HCl</p>											
Proposed presentation	25 mg (#A229011)	-										
Molarity	~33 μmol / vial	-										
Bulking agents	Mannitol	-										
Purity grade	> 95%	-										
Solubility	≥ 5 mg/mL in H ₂ O	-										
Molecular weight	760.9 Da (basic structure)	797.3 Da * (*HCl included)										
Free pNA content	< 0.05%	-										
E316 nm:	NA	-										
Respective reactivities	<table border="1"> <thead> <tr> <th>FXa</th> <th>Thrombin</th> <th>Plasmin</th> <th>Kallicrein</th> <th>aPC</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>1</td> <td>2</td> <td>3</td> <td>0</td> </tr> </tbody> </table> <p>Assay conditions must be duly established for rendering the assay conditions totally specific for Factor Xa, when this substrate is used.</p>	FXa	Thrombin	Plasmin	Kallicrein	aPC	100	1	2	3	0	-
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Manufactured By: HYPHEN BioMed

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Stability of the lyophilized product	Until the expiration date printed on the vial. (30 months at 2-8°C from the manufacturing date)	-																
Stability of the reconstituted product	<ul style="list-style-type: none"> - 7 days at room temperature (18-25 °C) - 3 months at 2-8 °C - Do not freeze. 	-																
Suitable stock solution	According to the research protocol used, the BIOPHEN CS-11(32) chromogenic substrate can be restored with variable volumes of distilled water ; for example 5 mL can be used for a substrate concentration of 5 mg/mL, or 20 mL for a substrate concentration of 1.25 mg/mL.	-																
Kinetic data	Same characteristics.	-																
Applications	For in vitro use only. All research studies and protocols where a source of chromogenic substrate for Factor Xa is required. Suggested protocol:	-																
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Reagent</th> <th style="width: 50%;">Water bath</th> </tr> </thead> <tbody> <tr> <td>Tris0.05M,NaCl0.30M, pH 8.40 buffer</td> <td>400 µL</td> </tr> <tr> <td>Human or Bovine FXa from 2.50µg/ml (=C), or serial dilutions, or plasma sample</td> <td>100 µL</td> </tr> <tr> <td colspan="2">Mix and incubate for 1 min at 37 °C</td> </tr> <tr> <td>Substrate (reconstituted at 2.5mg/ml in distilled water)</td> <td>100µl</td> </tr> <tr> <td colspan="2">Mix and incubate for 3 min at 37 °C</td> </tr> <tr> <td>Citric acid 2%</td> <td>300µl</td> </tr> <tr> <td colspan="2">Read A405nm against the sample blank.</td> </tr> </tbody> </table>		Reagent	Water bath	Tris0.05M,NaCl0.30M, pH 8.40 buffer	400 µL	Human or Bovine FXa from 2.50µg/ml (=C), or serial dilutions, or plasma sample	100 µL	Mix and incubate for 1 min at 37 °C		Substrate (reconstituted at 2.5mg/ml in distilled water)	100µl	Mix and incubate for 3 min at 37 °C		Citric acid 2%	300µl	Read A405nm against the sample blank.	
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