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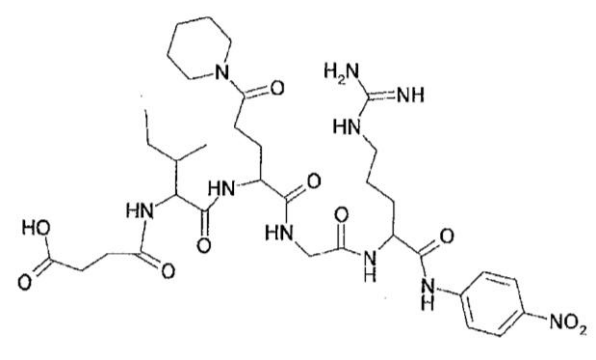
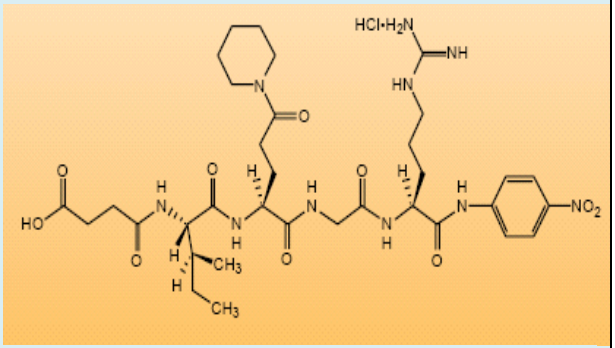
Manufactured By: HYPHEN BioMed

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	 $C_{34}H_{52}N_{10}O_{10}$, HCl	
Proposed presentation	25 mg (#A229011)	-
Molarity	~33 µmol / vial	-
Bulking agents	Mannitol	-
Purity grade	> 95%	-
Solubility	≥ 5 mg/mL in H2O	-
Molecular weight	760.9 Da (basic structure)	797.3 Da * (*HCl included)
Free pNA content	< 0.05%	-
E316 nm:	NA	-
Respective reactivities	FXa: 100; Thrombin: 1; Plasmin: 2; Kallicrein: 3; aPC: 0 Assay conditions must be duly established for rendering the assay conditions totally specific for Factor Xa, when this substrate is used.	-

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<table>
<tr><td>Stability of the lyophilized product</td><td>Until the expiration date printed on the vial.
(30 months at 2-8°C from the manufacturing date)</td><td>-</td></tr>
<tr><td>Stability of the reconstituted product</td><td>- 7 days at room temperature (18-25°C)
- 3 months at 2-8 °C
- Do not freeze.</td><td>-</td></tr>
<tr><td>Suitable stock solution</td><td>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.</td><td>-</td></tr>
<tr><td>Kinetic data</td><td>Same characteristics.</td><td>-</td></tr>
<tr><td>Applications</td><td>For in vitro use only.
All research studies and protocols where a source of chromogenic substrate for Factor Xa is required.
Suggested protocol:
<table>
<tr><td>Reagent</td><td>Water bath</td></tr>
<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>
</table></td><td>-</td></tr>
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