

COMPARISON OF CHARACTERISTICS AND PERFORMANCES OF UROKINASE (uPA) CHROMOGENIC SUBSTRATE (HYPHEN BioMed CS-61(44))

	HYPHEN BioMed	Chromogenix
Product name	BIOPHEN CS-61(44)	S2444
Product reference	A229061	82 03 57
Specificity	Recommended substrate for Urokinase	Chromogenic substrate for urokinase
Peptide sequence	PyroGlu—Gly-Arg-pNa-HCl	pyroGlu-Gly-Arg-pNA-HCl
Developed name	L-Pyroglutamyl-glycyl-L-arginine-p-Nitroaniline hydrochloride.	L-Pyroglutamyl-glycyl-L-arginine-p- Nitroaniline hydrochloride.
Chemical structure	$\begin{array}{ c c c c c }\hline & HCI+H_2N & H & H & H & H & H & H & H & H & H & $	$HCHH_2N$ $HCHH_2N$ HN HN HN HN HN H HN H HN H
Proposed presentation	25 mg	25 mg
Molarity	~ 54 µmol/vial	-
Bulking agents	Mannitol	Mannitol (40 mg/vial)
Purity grade	> 95%	-
Solubility	>10 mmol/L in H2O	>10 mmol/L in H2O
Molecular weight	462.5 Da (basic structure)	498.9 Da* (*HCl included)
Free pNA content	< 0.05%	NA
E316 nm:	NA	1.27 .10 ⁴ mol ⁻¹ . L . cm ⁻¹
Respective reactivities	APCFXaPlasminKallicreinThrombinUrokinase1212<1	-
Stability of the lyophilized product	Until the expiration date printed on the vial. (48 months at 2-8°C from the manufacturing date)	Stable until expiry date if stored at 2-8°C. Avoid exposure to light. The substance is hygroscopic and should be stored dry.
Stability of the reconstituted product	 7 days at room temperature (18-25°C) 3 months at 2-8 °C Do not freeze. 	2 mmol/L in H2O is stable for at least 6 months at 2 to 8°C.
Suitable stock solution	According to the research protocol used, the BIOPHEN CS-61(44) 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	2-3 mmol/L in H2O.
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CS-61(44)

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Kinetic data	Same characteristics		Urokinase: Ploug U Km=9 . 10-5 mol/L, V=3.1. 10-10 mol/min CTA U Km=6 . 10-5 mol/L, V=1.3 . 10-10 mol/min Determined at 37° C in 2.5 mL of 0.05 mol/L Tris buffer pH 8.8, I 0.05.
Applications	For in vitro use only. All research studies and pro chromogenic substrate for Ur Suggested protocol: Reagent uPA substrate (at 1mg/ml) Tris 0.05M , NaCl 0.05M pH 8.80 buffer Mix and incubate for 2 min a uPA at 5000 U/ml Mix and incubate for 3 min a Citric acid 2% Read A405nm against the s	Water bath 100 µL 600 µL at 37°C 100µl at 37°C 400µl	·



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