# Product Data Sheet

Product Name: H-D-Val-Leu-Lys-pNA . 2 HCl
Cat. No.: GA22320

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 62354-43-2 | | |
| Formula | $C_{23}H_{38}N_6O_5 \cdot 2\ HCl$ | M.Wt | 551.51 |
| Solubility | Soluble in DMSO | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | H-D-Val-Leu-Lys-pNA . 2 HCl | | |

## Background

H-D-Val-Leu-Lys-pNA . 2 HCl is a colorimetric substrate for the detection of protease activity, particularly plasmin [1]. H-D-Val-Leu-Lys-pNA . 2 HCl is catalytically bound and hydrolyzed by plasmin to release p-nitroaniline (pNA), which can be detected colorimetrically at 405 nm as a measure of plasminolytic activity[2]. H-D-Val-Leu-Lys-pNA . 2 HCl is a colorimetric substrate for the detection of protease activity, particularly plasmin has a high affinity for purified hypersensitive granuloma (gPA) and can be used to analyze macrophage activation in allergic granuloma of mice [3]. H-D-Val-Leu-Lys-pNA . 2 HCl has been widely used to identify extracellular proteases from micromycete[4].

References:
[1] Nagamatsu Y, Okamoto U, Tsuda Y, et al. Human leukocyte elastase-like proteinase purified by affinity chromatography with Suc-L-Tyr-D-Leu-D-Val-pNA, and its identification with human spleen fibrinolytic proteinase[J]. Thrombosis and haemostasis, 1984, 51(02): 243-247.
[2] Iwasaka M, Ueno S, Tsuda H. Effect of magnetic fields on the enzymatic activity of plasmin[C]//Proceedings of 16th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE, 1994, 2: 762-763.


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[3] Izaki S, Hibino T, Isozaki Y, et al. Plasminogen activator and plasminogen activator inhibitor associated with granulomatous inflammation: A study with murine leprosy[J]. Thrombosis and haemostasis, 1984, 52(06): 243-249.
[4] Stief T W, Richter A, Bünder R, et al. Functional Determination of Plasminin Arginine-stabilized Plasma[J]. Clinical and applied thrombosis/hemostasis, 2005, 11(3): 303-309.


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