

PGP9.5 Deubiquitinase Inhibitor Screening Kit ab283392

[2 Images](#)

Overview

Product name	PGP9.5 Deubiquitinase Inhibitor Screening Kit
Detection method	Fluorescent
Sample type	Inhibitor compounds
Assay duration	Multiple steps standard assay
Product overview	PGP9.5 Inhibitor Screening Kit utilizes the ability of active PGP9.5 Deubiquitinase to cleave a synthetic protein substrate to release the free fluorophore, which can be easily quantified (Ex/Em = 350/440 nm) using a fluorescence microplate reader. Small molecule inhibitors can either reduce or abolish this activity. This inhibitor screening kit thus allows rapid and reliable determination of the inhibitory effects of various compounds on PGP9.5 Deubiquitinase and should be used to screen for novel inhibitors.

Rapid, simple & reliable test for screening potential inhibitors of PGP9.5.

Notes	This product is manufactured by BioVision, an Abcam company and was previously called K484 UCH-L1 Deubiquitinase Inhibitor Screening Kit. K484-100 is the same size as the 100 test size of ab283392.
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Platform	Microplate (12 x 8 well strips)
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Properties

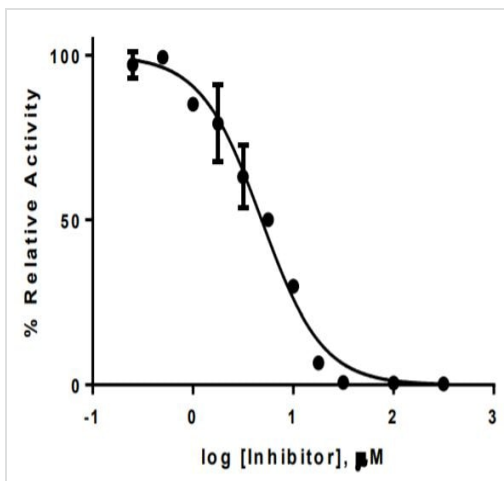
Storage instructions	Store at -20°C. Please refer to protocols.
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Components	Identifier	100 tests
96-well Half-Area White Plate		1 unit
PGP9.5 Assay Buffer	NM cap	1 x 5ml
PGP9.5 Enzyme	Orange cap	1 vial
PGP9.5 Inhibitor (LDN-57444)	Brown cap	1 x 20µl

Components	Identifier	100 tests
PGP9.5 Substrate (in DMSO)	Red cap	1 x 25µl

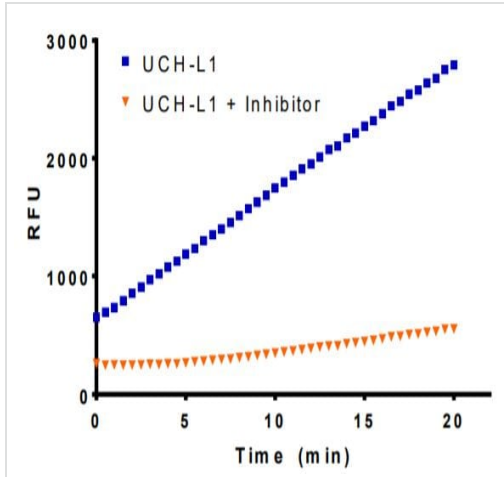
Function	Ubiquitin-protein hydrolase involved both in the processing of ubiquitin precursors and of ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. Also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer may have ATP-independent ubiquitin ligase activity.
Tissue specificity	Found in neuronal cell bodies and processes throughout the neocortex (at protein level). Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. Down-regulated in brains from Parkinson disease and Alzheimer disease patients.
Involvement in disease	Parkinson disease 5 Neurodegeneration with optic atrophy, childhood-onset
Sequence similarities	Belongs to the peptidase C12 family.
Post-translational modifications	O-glycosylated.
Cellular localization	Cytoplasm. Endoplasmic reticulum membrane. About 30% of total UCHL1 is associated with membranes in brain.

Images



Sample Inhibition of PGP9.5 enzyme activity by the supplied PGP9.5 Inhibitor.

Functional Studies - PGP9.5 Deubiquitinase Inhibitor
Screening Kit (ab283392)



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Functional Studies - PGP9.5 Deubiquitinase Inhibitor
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