

NEN[®] Nickel Chelate FlashPlate[®] PLUS

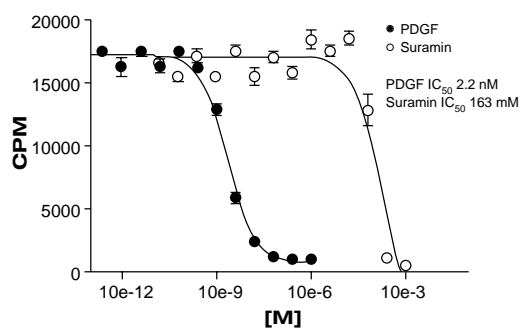
Homogeneous HTS Platform for Capturing Histidine-Tagged Molecules

Nickel Chelate FlashPlate PLUS from PerkinElmer Life Sciences is a scintillant microplate pre-coated with nickel chelate. It is designed for homogeneous, high volume, in-plate, radiometric assays that use 4- or 6-histidine tagged proteins and peptides. With most isotopes, assays are homogeneous, providing an efficient platform for binding or enzyme assay applications by capturing histidine tagged molecules. Nickel Chelate FlashPlate PLUS assays are easy to automate and miniaturize. Plates are available in 96- and 384-well formats, and fully compatible for HTS.

Versatile Platform Suitable for a Variety of Assays

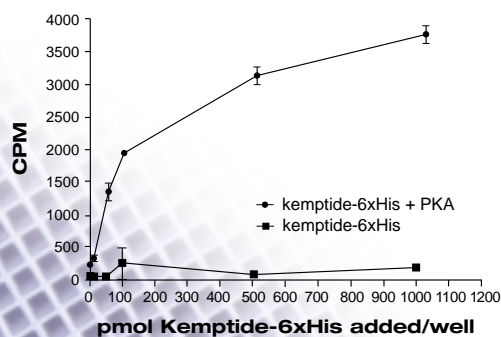
- Homogeneous** A mix-and-measure assay with most isotopes.
- Flexible** Useful for enzyme, protein-protein, protein-nucleic acid, and other assays. Convenient platform for ³³P assays.
- Easy-to-use** No liquid scintillant required or beads to handle.
- Robust** Ideally suited to automated equipment. Ability to aspirate and wash for improved signal-to-noise ratios.
- Economical** Pre-coated microplate format allows for easy miniaturization, fast throughput, cost and time savings.

Homogeneous ¹²⁵I PDGF Receptor Assay on 384-Well Nickel Chelate FlashPlate



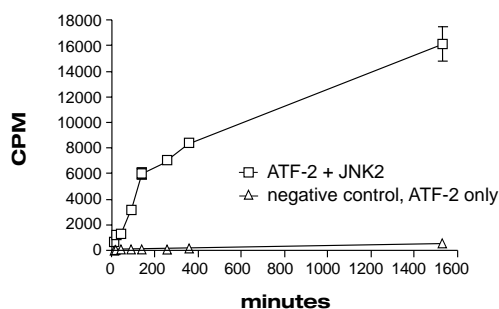
A competition assay was run with his-tagged PDGF receptor, [¹²⁵I]-PDGF (NEX260) and cold PDGF. The inhibition assay was run by replacing the cold PDGF with the weak inhibitor, Suramin.

³³P Protein Kinase A Assay on 96-well Nickel Chelate FlashPlate

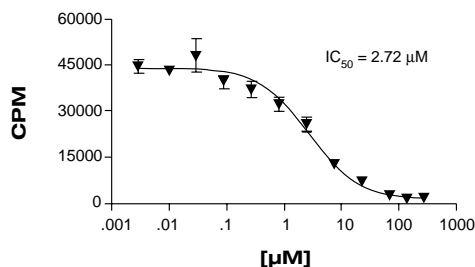


Various amounts of kemptide-6xHis were phosphorylated by a fixed amount of Protein Kinase A.

³³P JNK2 Kinase Assay on 384-Well Nickel Chelate FlashPlate



Time course of simultaneous phosphorylation of ATF-2 by JNK2 and capture on 384-well Nickel Chelate FlashPlate.



Inhibition of ATF-2 phosphorylation with JNK2 by SB203580: IC_{50} was 2.72 μ M, comparable to literature value of 5.0 μ M for solid phase and 1.5 μ M for solution phase. Similar results were obtained using the inhibitor Staurosporine (IC_{50} 8.5 μ M comparable to literature value of 3.5 μ M, data not shown).

Packaging, Shipping and Storage

SMP107	5-plate pack	96-well
SMP107A	20-plate pack	96-well (Coming Soon)
SMP412	2-plate pack	384-well
SMP412A	10-plate pack	384-well

Shipped ambient. Bulk packaging available upon request. Store at 2-8°C with desiccant. Protect from direct sunlight.

Related FlashPlate Products for High Throughput Screening from PerkinElmer Life Sciences

Basic FlashPlate	96- and 384-well scintillant-coated microplates
FlashPlate PLUS	Precoated with generic binding proteins
Sterile FlashPlate	For cell culture applications
FlashPlate Assays	Complete assay systems for quantifying a specific analyte

PerkinElmer also offers a comprehensive range of Radiolabeled Ligands, Radiolabeled Substrates, Cloned Receptors, and ³²P, ³³P, and ³⁵S Nucleotides.



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