

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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- Gefahrgutzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in





6042 Cornerstone Ct. West, Ste. B San Diego, CA 92121

Tel: 1.858.829.3082 Fax: 1.858.481.8694 Email: info@bpsbioscience.com

Data Sheet IDO1 Fluorogenic Inhibitor Screening Assay Kit (384 Well Format) Catalog #72047

DESCRIPTION: The *IDO1 Fluorogenic Inhibitor Screening Assay Kit* is designed to measure enzyme inhibition of indoleamine 2,3-dioxygenase 1 (IDO1). The kit comes in a convenient format, with enough reaction solution and enzyme to perform a total of 400 reactions. The *IDO1 Fluorogenic Inhibitor Screening Assay Kit* is simple to use and detects fluorescence at long wavelengths, which minimizes potential errors due to compound interference. In the assay, the inhibitor and enzyme are added to a sample containing L-Trp substrate. After a 1 hour incubation at room temperature, the fluorescence solution is added and incubated at 37° C for four hours. Activity is measured by reading sample fluorescence at λ =510 nm following excitation of the reaction product at λ =400 nm.

BACKGROUND: L-tryptophan (L-Trp) is an essential amino acid necessary for protein synthesis in mammalian cells and the L-Trp to kynurenine (Kyn) pathway is firmly established as a key regulator of innate and adaptive immunity. Catabolism of L-Trp to Kyn maintains an immunosuppressive microenvironment by starving immune cells of L-Trp and releasing degradation products of L-Trp that have immunosuppressive functions. Indoleamine 2,3-dioxygenases (IDO1 & IDO2), two of the rate limiting enzymes in this pathway, are upregulated in many tumors, providing cancer cells with an avenue for immune evasion.

COMPONENTS:

Catalog #	Component	Amount	Storage	
71182	IDO1 His-Tag	2 x 80 µg	-80°C	(0
73009	IDO1 Fluorogenic Reaction Solution	5 x 10 ml	-80°C	(Avoid freeze/
73002	IDO1 Assay Buffer	5 ml	-80°C	thaw cycles!)
	Fluorescence Solution	7 x 1 ml	-80°C	Cycles:)
	Black 384 Well Assay-Plate	1		
	Plate sealing film	1		

MATERIALS REQUIRED BUT NOT SUPPLIED:

Fluorimeter capable of excitation at 390-410 nm and detection at 500-520 nm Adjustable micropipettor and sterile tips Rotating or rocker platform

APPLICATIONS: Useful for the study of IDO1 enzymology, inhibitor screening, and selectivity profiling.

STABILITY: At least one year from date of receipt when stored as directed.

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CONTRAINDICATIONS: DMSO >0.5%, strong acids or bases, ionic detergents, high salt. Warning: the Fluorescence Solution contains a component that is known to be a skin and eye irritant. Use caution and appropriate personal protective equipment when handling this

REFERENCE(S):

component.

1. Seegers, N., et al. J. Biomol. Screen. 2014. 19(9):1266-74.

ASSAY PROTOCOL:

All samples and controls should be tested in duplicate. Use slow shaking for all incubations.

Step 1:

- 1) Thaw reaction solution and aliquot 90 µl into each well.
- 2) Add 5 μl of inhibitor solution (no more than 10% DMSO) to each well designated "Test Inhibitor." For the wells designated "Positive Control" and "Blank," add 5 μl of the same solution without inhibitor (inhibitor buffer). Note: Keep the final DMSO concentration below 0.5%.
- 3) Dilute **IDO1 His-Tag** in **IDO1Assay Buffer** at 80 ng/μl. Keep diluted protein on ice until use. Discard any unused diluted protein after use.

	Blank	Positive Control	Test Inhibitor
IDO1 Fluorogenic Reaction Solution	90 µl	90 µl	90 µl
Test Inhibitor	-	_	5 µl
Inhibitor buffer (no inhibitor)	5 µl	5 µl	ı
IDO1 Assay Buffer	5 µl	_	ı
IDO1 His-Tag (80 ng/μl)	-	5 µl	5 µl
Total	100 µl	100 µl	100 µl

- 4) Add 5 µl of **IDO Assay Buffer** to the wells designated "Blank."
- 5) Initiate reaction by adding 5 µl of diluted **IDO1 His-Tag** prepared as described above to the wells labeled "Positive Control," and "Test Inhibitor." Incubate at room temperature for 1 hour.
- 6) Add 16 µl **Fluorescence Solution** to each well. Seal the plate and incubate at 37°C for four hours. Allow plate to cool for at least 10 minutes.
- 7) Unseal the plate. For best results, centrifuge plate to reduce condensation on the film. Inspect plate for wells with large changes in volume. Wells with significant changes OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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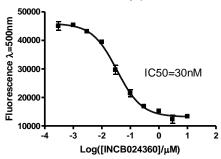
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Email: info@bpsbioscience.com

should be excluded from data analysis. Measure fluorescence in a fluorimeter capable of excitation at 400 nm and emission at 510 nm. Subtract "Blank" value from all other values.

EXAMPLE OF ASSAY RESULTS:

IDO1 Inhbition by INCB024360 Fluorescence Assay (384 well format)



Inhibition of IDO1 activity by INCB024360 (Cat. #27338), measured using the *IDO1 Fluorogenic Inhibitor Screening Assay Kit (384 well format)*, BPS Bioscience, Catalog #72047. *Data shown is lot-specific. For lot-specific information, please contact BPS Bioscience, Inc. at info@bpsbioscience.com.*

RELATED PRODUCTS:

<u>Product</u>	Catalog #	<u>Size</u>
IDO1, His-tag	71182	50 µg
IDO2, His-tag	71194	50 µg
TDO, His-tag	71195	50 µg
IDO1 Inhibitor Screening Assay Kit	72021	96 rxns
IDO2 Inhibitor Screening Assay Kit	72022	96 rxns
TDO Inhibitor Screening Assay Kit	72023	96 rxns
IDO1 Cell-Based Assay Kit	72031	100 rxns
TDO Cell-Based Assay Kit	72033	100 rxns
IDO1-HEK293 Recombinant Cell line	60532	2 vials
IDO1 Cellular Activity QuickDetect™ Supplements	62000-1	100 rxns
N-formylkynurenine	73000	2 mg
NLG919	27337-1	10 mg
INCB024360	27338-1	10 mg
IDO1 Reaction Solution	73001	10 ml
IDO1 Assay Buffer	73002	1 ml
IDO2 Reaction Solution	73003	10 ml
IDO2 Assay Buffer	73004	1 ml

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