



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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](https://www.linkedin.com/company/szaboscandic) 



6042 Cornerstone Court W, Ste B
San Diego, CA 92121
Tel: 1.858.202.1401
Fax: 1.858.481.8694
Email: info@bpsbioscience.com

Data Sheet **AXL Kinase Assay Kit** Catalog #79711

Background: AXL (TYRO7) is a receptor tyrosine kinase that is overexpressed in various forms of cancer, including breast, prostate, colorectal, and non-small cell cancers. AXL overexpression has been shown to encourage tumor progression and metastasis and to decrease the anti-tumor immune response, making AXL an attractive candidate for anticancer therapies.

Description: The *AXL Kinase Assay Kit* is designed to measure AXL kinase activity for screening and profiling applications using ADP-Glo[®] Kinase Assay as a detection reagent. The *AXL Kinase Assay Kit* comes in a convenient 96-well format, with enough purified recombinant AXL enzyme, AXL substrate, ATP and kinase assay buffer for 100 enzyme reactions.

COMPONENTS:

| Catalog # | Reagent | Amount | Storage | |
|-----------|-------------------------|--------|------------|--|
| 40180 | AXL | 10 µg | -80°C | Avoid multiple freeze/ thaw cycles! |
| 79334 | 5x Kinase assay buffer | 1.5 ml | -20°C | |
| 79686 | ATP (500 µM) | 100 µl | -20°C | |
| 79712 | AXL Substrate (1 mg/ml) | 500 µl | -20°C | |
| 79696 | 96-well plate, white | 1 | Room Temp. | |

MATERIALS OR INSTRUMENTS REQUIRED BUT NOT SUPPLIED:

ADP-Glo[®] Kinase Assay (Promega #V6930)
Dithiothreitol (DTT, 1 M; optional)
Microplate reader capable of reading luminescence
Adjustable micropipettor and sterile tips
30°C incubator

APPLICATIONS: Useful for studying enzyme kinetics and screening small molecular inhibitors for drug discovery and HTS applications.

STABILITY: Up to 6 months when stored as recommended.

REFERENCE:

1. Wu, X., Liu, X., Koul, S., Lee, C.Y., Zhang, Z., Halmos, B. AXL kinase as a novel target for cancer therapy. *Oncotarget*. 2014; **5(20)**:9546-63.
2. Rankin, E.B., Giaccia, A.J. The Receptor Tyrosine Kinase AXL in Cancer Progression. *Cancers (Basel)*. 2016; **8(11)**:103.

OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

To place your order, please contact us by Phone **1.858.202.1401** Fax **1.858.481.8694**

Or you can Email us at: info@bpsbioscience.com

Please visit our website at: www.bpsbioscience.com

ASSAY PROTOCOL:

All samples and controls should be tested in duplicate.

- 1) Thaw **5x Kinase assay buffer**, **ATP (500 μM)**, and **AXL Substrate (1 mg/ml)**.
 (Optional: If desired, add DTT to **5x Kinase assay buffer** to make a 10 mM concentration; e.g. add 10 μl of 1 M DTT to 1 ml **5x Kinase assay buffer**).
- 2) Prepare the master mixture (12.5 μl per well): N wells x (3 μl **5x Kinase assay buffer** + 0.5 μl **ATP (500 μM)** + 5 μl **AXL Substrate (1 mg/ml)** + 4 μl water). Add 12.5 μl to every well.

| | Positive Control | Test Inhibitor | Blank |
|---------------------------------|------------------|----------------|--------------|
| 5x Kinase assay buffer | 3 μl | 3 μl | 3 μl |
| ATP (500 μM) | 0.5 μl | 0.5 μl | 0.5 μl |
| AXL Substrate 1 mg/ml | 5 μl | 5 μl | 5 μl |
| Water | 4 μl | 4 μl | 4 μl |
| Test Inhibitor | - | 2.5 μl | - |
| Inhibitor Buffer (no inhibitor) | 2.5 μl | - | 2.5 μl |
| 1x Kinase buffer | - | - | 10 μl |
| AXL (10 ng/μl) | 10 μl | 10 μl | - |
| Total | 25 μl | 25 μl | 25 μl |

- 3) Add 2.5 μl of Inhibitor solution of each well labeled as "Test Inhibitor." For the "Positive Control" and "Blank," add 2.5 μl of the same solution without inhibitor (Inhibitor buffer). *Note: Keep DMSO concentration of the Test Inhibitor at ≤10%, as final DMSO concentration in the reaction should be ≤1%.*
- 4) Prepare 3 ml of **1x Kinase assay buffer** by mixing 600 μl of 5x Kinase assay buffer with 2400 μl water. 3 ml of **1x Kinase assay buffer** is sufficient for 100 reactions.
- 5) To the wells designated as "Blank," add 10 μl of **1x Kinase assay buffer**.
- 6) Thaw **AXL** enzyme on ice. Upon first thaw, briefly spin tube containing enzyme to recover full content of the tube. Calculate the amount of **AXL** required for the assay and dilute enzyme to 10 ng/μl with **1x Kinase assay buffer**. Store remaining undiluted enzyme in aliquots at -80°C. *Note: AXL enzyme is sensitive to freeze/thaw cycles. Avoid multiple freeze/thaw cycles. Do not re-use thawed aliquots or diluted enzyme.*

OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

To place your order, please contact us by Phone **1.858.202.1401** Fax **1.858.481.8694**

Or you can Email us at: info@bpsbioscience.com

Please visit our website at: www.bpsbioscience.com



6042 Cornerstone Court W, Ste B
San Diego, CA 92121
Tel: 1.858.202.1401
Fax: 1.858.481.8694
Email: info@bpsbioscience.com

- 7) Initiate reaction by adding 10 μ l of diluted **AXL** enzyme to the wells designated "Positive Control" and "Test Inhibitor Control." Incubate at 30°C for 45 minutes.
- 8) Thaw ADP-Glo reagent.
- 9) After the 45 minutes reaction, add 25 μ l of ADP-Glo reagent to each well. Cover plate with aluminum foil and incubate the plate at room temperature for 45 minutes.
- 10) Thaw Kinase Detection reagent.
- 11) After the 45 minutes incubation, add 50 μ l of Kinase Detection reagent to each well. Cover plate with aluminum foil and incubate the plate at room temperature for another 45 minutes.
- 12) Immediately read sample in a luminometer or microtiter-plate capable of reading chemiluminescence. "Blank" value is subtracted from all readings.

Reading Chemiluminescence:

Chemiluminescence is the emission of light (luminescence) which results from a chemical reaction. The detection of chemiluminescence requires no wavelength selection because the method used is emission photometry and is not emission spectrophotometry.

To properly read chemiluminescence, make sure the plate reader is set for LUMINESCENCE mode. Typical integration time is 1 second, delay after plate movement is 100 msec. Do not use a filter when measuring light emission. Typical settings for the Synergy 2 BioTek plate reader are: use the "hole" position on the filter wheel; Optics position: Top; Read type: endpoint. Sensitivity may be adjusted based on the luminescence of a control assay without enzyme (typically we set this value as 100).

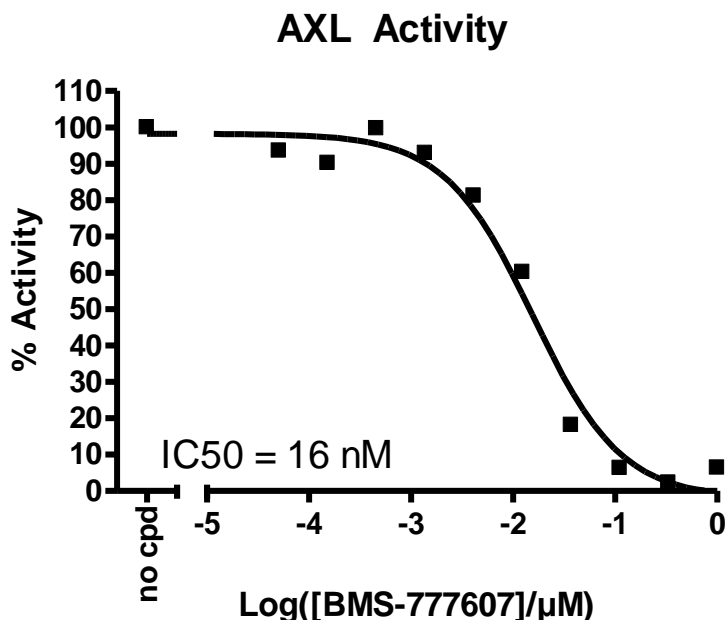
OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

To place your order, please contact us by Phone **1.858.202.1401** Fax **1.858.481.8694**

Or you can Email us at: info@bpsbioscience.com

Please visit our website at: www.bpsbioscience.com

Example of Assay Results:



Inhibition of AXL enzyme by BMS-777607, measured using the AXL kinase assay kit (Cat. #79711). Data shown is lot-specific. For lot-specific information, please contact BPS Bioscience, Inc. at info@bpsbioscience.com

RELATED PRODUCTS:

| <u>Product Name</u> | <u>Catalog #</u> | <u>Size</u> |
|------------------------|------------------|-------------|
| AXL (TYRO7), GST-tag | 40180 | 10 µg |
| TYRO3, GST-tag | 40293 | 10 µg |
| EPHA1, GST-tag | 40191 | 10 µg |
| EPHA2, GST-tag | 40190 | 10 µg |
| EPHA3 (TYRO4), GST-tag | 40192 | 10 µg |
| EPHA4 (TYRO1), GST-tag | 40193 | 10 µg |
| EPHB2 (TYRO5), His-tag | 40200 | 10 µg |
| EPHB3 (TYRO6), His-tag | 40186 | 10 µg |
| DDR2 (TYRO10), His-tag | 40185 | 10 µg |
| 5X Kinase assay buffer | 79334 | 10 ml |
| TYRO3 Kinase Assay Kit | 79593 | 96 rxns. |

OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

To place your order, please contact us by Phone **1.858.202.1401** Fax **1.858.481.8694**

Or you can Email us at: info@bpsbioscience.com

Please visit our website at: www.bpsbioscience.com