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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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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



6044 Cornerstone Ct. West, Ste. E  
San Diego, CA 92121  
Tel: 1.858.829.3082  
Fax: 1.858.481.8694  
Email: [info@bpsbioscience.com](mailto:info@bpsbioscience.com)

## Data Sheet

### ***L3MBTL1 Inhibitor Screening Assay Kit***

Catalog # 55100

**DESCRIPTION:** The *L3MBTL1 Inhibitor Screening Assay Kit* is designed to measure the inhibition of L3MBTL1 binding to its substrate. The kit comes in a convenient AlphaLISA<sup>®</sup> format, with enough biotinylated histone peptide substrate, assay buffer, detection buffer and purified GST-tagged L3MBTL1 MBT domain to perform a total of 384 enzyme reactions. The key to the kit is the specific binding of the L3MBTL1 MBT domain to the methylated-peptide substrate. With this kit, only three simple steps on a microtiter plate are required. First, a sample containing L3MBTL1 and an inhibitor of choice is incubated with the biotinylated substrate for thirty minutes. Next, acceptor beads are added, then donor beads, followed by reading the Alpha-counts.

#### **COMPONENTS:**

Catalog #	Component	Amount	Storage	
55000	GST- L3MBTL1 (191-530)	80 µg	-80 °C	<b>(Avoid freeze/thaw cycles!)</b>
	Methylated MBT Ligand 1	400 µl	-80 °C	
	Non-Methylated MBT Ligand 1	200 µl	-80 °C	
	3x L3MBTL1 assay buffer	4 ml	-20 °C	
	3x L3MBTL1 detection buffer	3 ml	-20 °C	

#### **MATERIALS OR INSTRUMENTS REQUIRED BUT NOT SUPPLIED:**

Glutathione AlphaLISA<sup>®</sup> Acceptor Beads, 5 mg/ml (PerkinElmer #AL109C)  
AlphaScreen<sup>®</sup> Streptavidin-conjugated donor beads, 5 mg/ml (PerkinElmer #6760002S)  
Optiplate-384 (PerkinElmer #6007290)  
AlphaScreen<sup>®</sup> microplate reader  
Adjustable micropipettor and sterile tips

**APPLICATIONS:** Useful for the study of MBT domain binding assays, screening inhibitors, and selectivity profiling.

**CONTRAINDICATIONS:** Green and blue dyes that absorb light in the AlphaScreen<sup>®</sup> signal emission range (520-620 nm), such as Trypan Blue. Avoid the use of the potent singlet oxygen quenchers such as sodium azide (NaN<sub>3</sub>) or metal ions (Fe<sup>2+</sup>, Fe<sup>3+</sup>, Cu<sup>2+</sup>, Zn<sup>2+</sup> and Ni<sup>2+</sup>). The presence of >1% RPMI 1640 culture medium leads to a signal reduction due to the presence of excess biotin and iron in this medium. MEM, which lacks these components, does not affect AlphaScreen<sup>®</sup> assays.

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

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**REFERENCE:** Min, J., *et al.*, *Nat Struct Mol Biol.* 2008 Jan;**15(1)**:114.

**ASSAY PROTOCOL:**

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

**Step 1:**

- 1) Prepare the master mixture: N wells × (2.5 µl **3x L3MBTL1 assay buffer** + 1 µl **Methylated MBT Ligand 1** + 1.5 µl **H<sub>2</sub>O**).
- 2) Thaw **L3MBTL1** on ice. Upon first thaw, briefly spin tube containing protein to recover full content of the tube. Aliquot protein into single use aliquots. Store remaining undiluted protein in aliquots at -80°C immediately. *Note: L3MBTL1 is very sensitive to freeze/thaw cycles. Do not re-use thawed aliquots or diluted protein.*
- 3) Dilute **L3MBTL1** in 1x **L3MBTL1 assay buffer** to 80 ng/µl. Keep diluted protein on ice until use. Discard any unused diluted protein after use.

Add 5 µl of master mixture to each well designated for the “Positive Control”, “Test Inhibitor”, and “Blank”. For the “Substrate Control”, add 2.5 µl **3x L3MBTL1 assay buffer** + 1.5 µl **H<sub>2</sub>O** + 1 µl of **Non-methylated Ligand 1**.

	Blank	Substrate Control	Positive Control	Test Inhibitor
3x L3MBTL1 assay buffer	2.5 µl	2.5 µl	2.5 µl	2.5 µl
Methylated MBT Ligand 1	1 µl	-	1 µl	1 µl
Non-Methylated MBT Ligand 1	-	1 µl	-	-
H <sub>2</sub> O	1.5 µl	1.5 µl	1.5 µl	1.5 µl
Test Inhibitor/Activator	-	-	-	2.5 µl
Inhibitor buffer (no inhibitor)	2.5 µl	2.5 µl	2.5 µl	-
1x L3MBTL1 assay buffer	2.5 µl	-	-	-
L3MBTL1 (80 ng/µl)	-	2.5 µl	2.5 µl	2.5 µl
<b>Total</b>	<b>10 µl</b>	<b>10 µl</b>	<b>10 µl</b>	<b>10 µl</b>

- 4) Add 2.5 µl of **inhibitor solution** to each well designated “Test Inhibitor”. For the “Positive Control”, “Substrate Control” and “Blank”, add 2.5 µl of the same **solution without inhibitor** (inhibitor buffer). *Note: Keep DMSO concentration below 0.5 %.*
- 5) Add 2.5 µl of **1x L3MBTL1 assay buffer** to the well designated “Blank”.

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- 6) Initiate reaction by adding 2.5  $\mu$ l of diluted L3MBTL1 prepared as described above to the wells labeled "Positive Control", "Test Inhibitor", and "Substrate Control". Incubate at room temperature for 30 minutes.

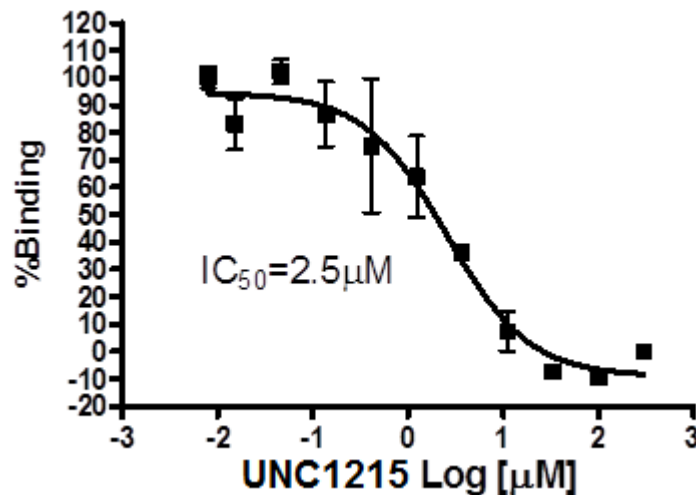
**Step 2:**

**Note: Protect your samples from direct exposure to light!**

- 1) Dilute Glutathione AlphaLISA<sup>®</sup> Acceptor Beads (PerkinElmer #AL109C) 250-fold with 1x L3MBTL1 detection buffer. Add 10  $\mu$ l per well. Shake plate briefly. Incubate at room temperature for 30 minutes.

**Step 3:**

- 1) Dilute Streptavidin-conjugated donor beads (PE #6760002S) 125-fold with 1x L3MBTL1 detection buffer. Add 10  $\mu$ l per well. Incubate at room temperature for 15 - 30 minutes.
- 2) Read Alpha-counts.

**EXAMPLE OF ASSAY RESULTS:**

Inhibition of L3MBTL1 binding, measured using the L3MBTL1 Inhibitor Screening Assay Kit, BPS Bioscience, Catalog #55100. *Data shown is lot-specific. For lot-specific information, please contact BPS Bioscience, Inc. at [info@bpsbioscience.com](mailto:info@bpsbioscience.com).*

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San Diego, CA 92121  
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**RELATED PRODUCTS:**

<b><u>Product Name</u></b>	<b><u>Catalog #</u></b>	<b><u>Size</u></b>
L3MBTL1, GST-tag	55000	100 µg
L3MBTL1, His-tag	55002	100 µg
UHRF1 (2-793), His-Flag tag	55001	50 µg
UHRF1 (108-286), His-tag	55004	100 µg
UHRF1 (108-286), GST-tag	55003	100 µg
CBX1, GST-tag	55009	100 µg
CBX2, GST-tag	55011	100 µg
CHD2, GST-tag	55005	100 µg
CDY1, GST-tag	55007	100 µg

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