

Research use only. Not for use in diagnostic procedures.

AlphaLISA®

Anti- VHH Acceptor Beads

Product number:	AL180C	Lot Number:	3301375		
Material provided:	AlphaLISA Anti-VHH Acceptor Beads at 5 mg/mL in PBS, pH 7.4 supplemented with 0.05% Kathon as a preservative.				
Product Format:	AL180C: 250 μg, 50 μL, 500 assay points				
	AL180M: 5 mg, 1 mL, 10 000 assay points				
	AL180R: 25 mg, 5 mL, 50 000 assay points				
	The number of assay points is based on an assay volume of 25 μ L in 384-well assay plates using a final bead concentration of 20 μ g/mL.				
Manufacturing date:	March 21, 2024 Document version	on: 1			

Product Information

Application:	This product is intended for use in homogeneous Alpha assays for the capture of VHHs.
Storage:	Store product in the dark at 4 ºC.
Stability:	This kit is stable for at least 12 months from the date of manufacture when stored in its original packaging and the recommended storage conditions.

Quality Control

Lot to lot consistency is confirmed in an Alpha assay. Maximum signal, minimum signal, S/B and EC50 were measured on the EnVision Multilabel Plate Reader with Alpha option. We certify that these results meet our quality release criteria. Maximum counts may vary between bead lots and the instrument used, with no impact on assay quality.

0.33 ng/mL
685.6 counts
81487 counts
119 counts

Titration Assay (Quality Control Procedure)

This protocol provides a means to verify product performance. The following reagents and materials are recommended.

Item	Suggested source	
AlphaPlate™-384	Revvity Inc.	
TopSeal [™] -A Plus Adhesive Sealing Film	Revvity Inc.	
EnVision [®] -Alpha Reader	Revvity Inc.	
Anti-6xHis AlphaLisa Donor Beads	Revvity Inc.	
VHH-cmyc-6His	NA	
AlphaLISA PPI Buffer 5X	Revvity Inc.	

Recommendations

- Alpha Donor beads are light-sensitive. All Alpha assays using the Donor beads should be performed under subdued laboratory lighting (< 100 lux). Green filters (LEE 090 filters) can be applied to light fixtures.
- Sodium azide should not be added to stock solutions or assay components. Final concentrations of sodium azide higher than 0.001 % will decrease the AlphaLISA signal.
- Spin down tubes briefly before use to improve recovery of content (2,000 x g, 10-15 sec). Resuspend all reagents by vortexing before use.
- Use Milli-Q[®] grade water (18 MΩ•cm) to dilute the 5X AlphaLISA PPI Buffer.
- 1X AlphaLISA PPI Buffer contains 50mM HEPES (pH 7.3),100mM NaCl, 0.5% Triton X-100, 0.5% BSA. 1X AlphaLISA PPI Buffer is used in the titration assay described below (Quality Control Protocol). Optimization of this assay buffer might be necessary in other assay types.
- Small volumes may be prone to evaporation. It is recommended to cover microplates with TopSeal-A Adhesive Sealing Film to reduce evaporation during incubation. Microplates are read with the TopSeal-A Film on the plate.
- Total signal varies with temperature and incubation time. For consistent results, identical incubation times and temperature should be used for all plates.
- The AlphaLISA signal is detected with an EnVision Multilabel reader equipped with the ALPHA option using the AlphaScreen standard settings (e.g. Total Measurement Time: 550 ms, Excitation Time: 180 ms, Mirror: D640as, Emission Filter: M570w, Center Wavelength 570 nm, Bandwidth 100 nm, Transmittance 75%).

Protocol

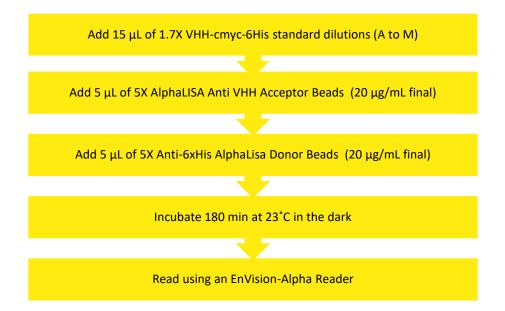
- <u>Preparation of 1X AlphaLISA PPI Buffer</u>: Add 1 mL of 5X AlphaLISA PPI Buffer to 4 mL Milli-Q[®] grade H₂O.
- Preparation 1.7X VHH-cmyc-6His (20 μL at 4 μM) dilutions: Dilute VHH-cmyc-6His to 400 nM stock solution Prepare 1.7X dilutions in 1X AlphaLISA PPI Assay Buffer as follows:

Tube	<i>Volume of</i> VHH-cmyc-6His	Volume of 1X buffer (µL)	[VHH-cmyc-6His] (M) in 15 μL (1.7X)	[VHH-cmyc-6His] (M) in final assay volume (25 μL)
A	40 µL of predilution	279	5.1E-8	3.0E-8
В	60 μL of tube A	120	1.7E-8	1.0E-8
С	60 μL of tube B	140	5.1E-9	3.0E-9
D	60 μL of tube C	120	1.7E-9	1.0E-9
E	60 μL of tube D	140	5.1E-10	3.0E-10
F	60 μL of tube E	120	1.7E-10	1.0E-10
G	60 μL of tube F	140	5.1E-11	3.0E-11
Н	60 μL of tube G	120	1.7E-11	1.0E-11
I	60 μL of tube H	140	5.1E-12	3.0E-12
J	60 μL of tube I	120	1.7E-12	1.0E-12
К	60 μL of tube J	140	5.1E-13	3.0E-13
L	60 μL of tube K	120	1.7E-13	1.0E-13
М	0	140	0	0

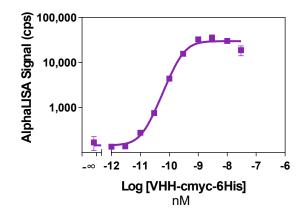
 Preparation of 5X AlphaLISA Anti VHH Acceptor beads (100 μg/mL): Add 10 μL of 5 mg/mL AlphaLISA Anti VHH Acceptor beads to 490 μL of 1X AlphaLISA PPI Buffer.

 4) <u>Preparation of 5X Anti-6xHis AlphaLisa Donor Beads (100 μg/mL)</u>: Keep the beads under subdued laboratory lighting. Add 10 μL of 5 mg/mL Anti-6xHis AlphaLisa Donor Beads to 490 μL of 1X AlphaLISA PPI Buffer.

5) In a AlphaPlate-384 light gray microplate:



Typical Product Data



The signal was measured on the EnVision Multilabel Plate Reader with Alpha option using the protocol described in the quality control procedure.

* The EC50 value was determined following a non-linear regression analysis using the sigmoidal dose-response curve model with variable slope. Only assay points up to the maximum signal were used for EC50 determination (in this case, up to 10 nM).

Please visit our website for additional information on AlphaLISA technology at www.revvity.com

The information provided in this document is valid for the specified lot number and date of analysis. This information is for reference purposes only and does not constitute a warranty or guarantee of the product's suitability for any specific use. Revvity, Inc., its subsidiaries, and/or affiliates (collectively, "Revvity") do not assume any liability for any errors or damages arising from the use of this document or the product described herein. REVVITY EXPRESSLY DISCLAIMS ALL WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDLESS OF WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED, ALLEGEDLY ARISING FROM ANY USAGE OF ANY TRADE OR ANY COURSE OF DEALING, IN CONNECTION WITH THE USE OF INFORMATION CONTAINED HEREIN OR THE PRODUCT ITSELF.

revvity

Revvity, Inc. 940 Winter Street Waltham, MA 02451 USA (800) 762-4000 www.revvity.com

For a complete listing of our global offices, visit <u>www.revvity.com</u> Copyright ©2023, Revvity, Inc. All rights reserved.