

Product Description

TRAP-6 amide is a synthetic PAR 1 (Thrombin Receptor Activating Peptide): H-Ser-Phe-Leu-Leu-Arg-Asn-NH₂. TRAP-6 is a lyophilized preparation of TRAP-6 amide. The working concentration of the reconstituted reagent is 150µM.

Intended Use

TRAP-6 amide is for use in the study of platelet function and receptors.

Principle

When added to normal platelets, TRAP-6 amide elicits a measurable concentration dependent, monophasic platelet aggregation response.

Precautions

TRAP-6 amide is FOR RESEARCH USE ONLY (RUO) AND NOT FOR INJECTION, INGESTION OR OTHER USE.

Materials Provided

Trap-6 amide, one 5mg vial.

Reagent Storage

Store Trap-6 amide lyophilized reagent at -20° ± 5°C.

Reconstitution

NOTE: Frozen Trap-6 amide reagent **MUST BE WARMED** at 37°C then equilibrated to room temperature prior to use.

Reconstitute a vial of TRAP-6 amide with 1.0mL 0.9% preservative free sodium chloride. Invert to mix three times and then allow to stand for 5 minutes. Tap the vial bottom lightly on the counter to dislodge any droplets from the cap.

Reconstituted reagent must be stored at 2 - 8°C when not in use.

Test Procedure For LTA Aggregometers

Testing must be completed within 3 hours of specimen collection.

1. Prepare a "Blank" by pipetting 250.0uL of platelet poor plasma (PPP) into a test tube.
 - a. Do not add a stir bar. Cover and store at room temperature.
 - b. Gently mix prior to setting the Blank. Do not vortex.
2. Place the appropriate number of test tubes required for testing into the incubation wells.
 - a. Add a stir bar into each test tube. Incubate one minute without stirring.
3. Move the test tubes to the stirred incubation wells.
4. Pipette 225.0uL of the sample platelet rich plasma (PRP) into the test tubes.
5. Set the 100% baseline by placing the blank into the test well.
 - a. Select Blank.
6. Place the test tube of sample (PRP) into each test well.

7. Close the well cover.
 - a. Select Start.
8. Add 25.0uL TRAP-6 amide reagent directly into the sample (PRP).
 - a. Do not allow the TRAP-6 amide to run down the side of the tube.
 - b. Select Inject.
9. Allow the test to run for 6 minutes.

References

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2. Reese, MJ. et. al. Near-Patient Platelet Function Testing in Patients Undergoing Coronary Artery Surgery: A Pilot Study, Anesthesia, 2011.66, p 97-103. doi 10.1111/j.1365-2044.06608.x.
3. Horpus, DL et.al. Creatine Kinase Inhibits ADP Included Platelet Aggregation. Scientific Reports. 2014; 4: 6551. Published 10/9/14. doi. 10.1038/srep06551
4. Dobrovolskaia, M. A and McNeil, SE. Frontiers in Nanobiomedical Research, Vol 1. Handbook of Immunologic Properties of Engineered Nanomaterials (5.1.2) World Scientific. Singapore, Hackensack, London. 2013. ISBN:978-981-4699-16-7

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