Sibtech, Inc.

Inactivated scVEGF/Si

Control reagent

SBT302-IN

The inactivated scVEGF/Si is a control reagent for the assessment of non-receptor-mediated (non-specific) uptake.

Unlike imaging with fluorescent tracers based on specific antibodies, when any unrelated antibody of the same type can be used for the assessment of non-specific dye accumulation, there is no such entity as an "unrelated growth factor". Growth factors are vastly different proteins, both physically and functionally, and many of them are involved in cross-talk with multiple receptors. For these reasons, the most appropriate negative control for a ligand/receptor-based imaging tracer would be the same ligand lacking the ability to bind its cognate receptor.

To ensure that imaging obtained with the inactivated VEGF/Si is not mediated by VEGF receptors and reflects strictly non-specific accumulation of a Cy5.5-labeled probe, primary amino groups of scVEGF/Si have been randomly modified. The resulting inactivated control reagent is purified by gel-filtration, and analyzed *in vitro* to confirm the complete loss of VEGFR-binding activity.

One vial contains 150 µg (5.4 nmol) of lyophilized inactive scVEGF/Si.

Stability: This product is shipped on wet ice. Upon reconstitution, it can be stored at 4 °C for 2-4 weeks. For long-term storage, it should be placed at –20 °C or below, to avoid aggregation. Freezing-thawing should be avoided.

Handling:
Good laboratory technique should be employed in the safe handling of this product. This requires observing the following practices:

1. Wear lab coat, gloves and safety glasses
2. Do not mouth pipette, inhale, ingest or allow to come into contact with open wounds. Wash thoroughly any area of the body which comes into contact with this reagent
3. Avoid accidental autoinjection by exercising extreme care when handling in conjunction with any injection device.
4. Inactivated scVEGF/Si is intended for research purposes only. NOT FOR HUMAN USE.
5. SibTech, Inc. is not liable for any damages resulting from the misuse or handling of inactivated scVEGF/Si.

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