Fluorescent Large EVs

Large EVs/Microvesicles labeled with Bodipy dye

Product Code: HBM-MVF-#

Pioneering the EV Field

About Microvesicles

Microvesicles, called Ectosomes, are formed by the outward budding of the plasma membrane. Their dimensions are between 100 and 1000 nm. The release is promoted by the translocation of residues of phosphatidylserine on the external layer of the plasma membrane. During the formation process, MV accumulate proteins and genetic material of the parental cells.

Large EVs are produced by HansaBioMed Life Sciences by tangential flow filtration (TFF) using a filter with pore size of 200 nm, that allows to obtain a population of EVs with diameter larger than 150 nm.

Fluorescent Large EVs/Microvesicles.

HansaBioMed's fluorescent Large EVs/Microvesicles are suitable for EV tracking studies, flow cytometry and electron microscopy. They are quantified for overall protein content , particle number and size distribution by by Nanoparticles Tracking Analysis (NTA, Zetaview, Particle Metrix). The excitation maximum of fluorescent Large Evs/ Microvesicles is 500 nm - 650 nm and emission maximum is 510 - 665 nm.

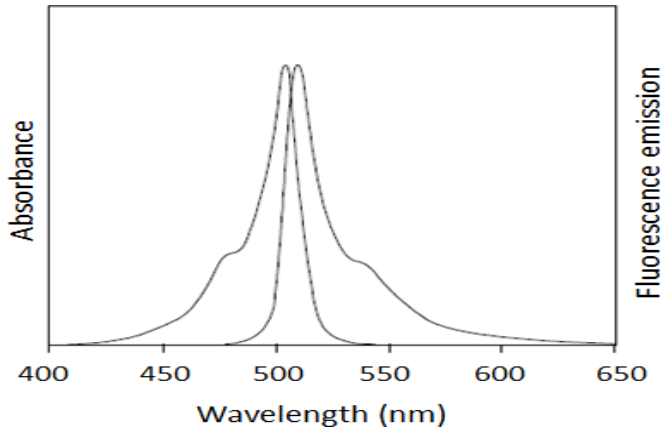

Fig. 1: Absorbance and emission spectra of Bodipy

Storage.

- Fluorescently labeled large EVs/Microvesicles and fluorescently labeled small EVs/exosomes are shipped in liquid form at controled temperature (4˚C) and must be stored at -20˚C protected from light.
- Fluorescently labeled large EVs/Microvesicles and fluorescently labeled small EVs/Exosomes are stable for approximately 6 months storage at -20˚C. Avoid repeated freeze-and-thaw cycles. Protect from light.

Types of Fluorescently Labeled Small Evs/Exosome and Large EVs/Microvesicles Available:

- Fluorescent EVs (Large and Small) from human Biofluids (plasma, serum, urine, saliva) of healthy donors.
- Fluorescent EVs (Large and Small) from conditioned medium of the following cell lines: COLO1, HCT116, SK-N-SH, U87MG, LNCAP, NCI-H1975, HEK293, PC3, A549, K562, HT29, mouse cell B16F10). .