

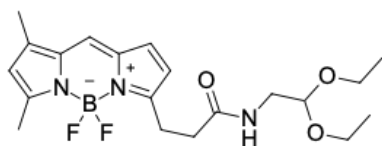
## BDP®-aminoacetaldehyde diethyl acetal (BAAA-DA)

<http://www.lumiprobe.com/p/baaa-da-247069-93-8>

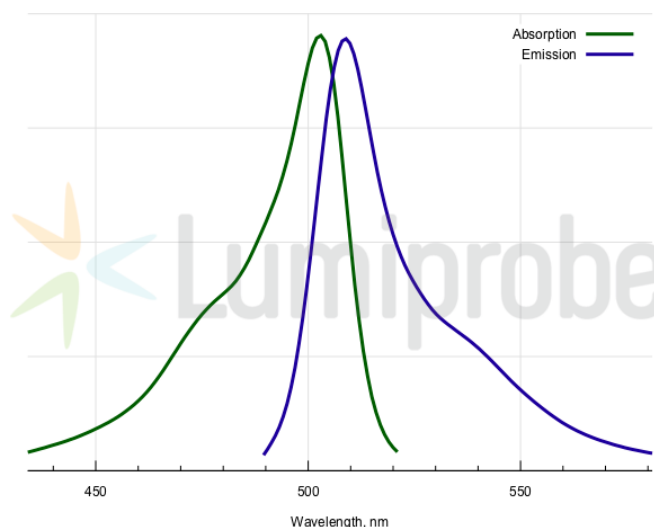
BDP®-aminoacetaldehyde diethyl acetal (BAAA-DA) is a stable precursor to BDP-aminoacetaldehyde (BAAA), a cell-permeant fluorescent substrate for aldehyde dehydrogenase (ALDH). Inside the cell, BAAA is converted by intracellular ALDH to BDP-aminoacetate (BAA), which accumulates in cells and can serve as an indicator of high ALDH activity.

BAAA-DA can be used for identifying, isolating, and sorting cells with high levels of ALDH, such as human hematopoietic progenitor cells and cancer stem cells.

BAA has an excitation maximum of 503 nm and an emission maximum of 509 nm.



**Structure of BDP®-aminoacetaldehyde diethyl acetal (BAAA-DA)**



**Absorption and emission spectra of BDP FL**

### General properties

Appearance:	orange powder
Molecular weight:	407.27
CAS number:	247069-93-8
Molecular formula:	C <sub>20</sub> H <sub>28</sub> BF <sub>2</sub> N <sub>3</sub> O <sub>3</sub>
IUPAC name:	(T-4)-[N-(2,2-diethoxyethyl)-5-[(3,5-dimethyl-2H-pyrrol-2-ylidene-κN)methyl]-1H-pyrrole-2-propanamido-κN1]difluoro-boron
Solubility:	acetonitrile, DCM, DMSO
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

### Spectral properties

Excitation/absorption maximum, nm:	503
Emission maximum, nm:	509

BDP® is a trademark of Lumiprobe.