02934 Atto MB2-Biotin

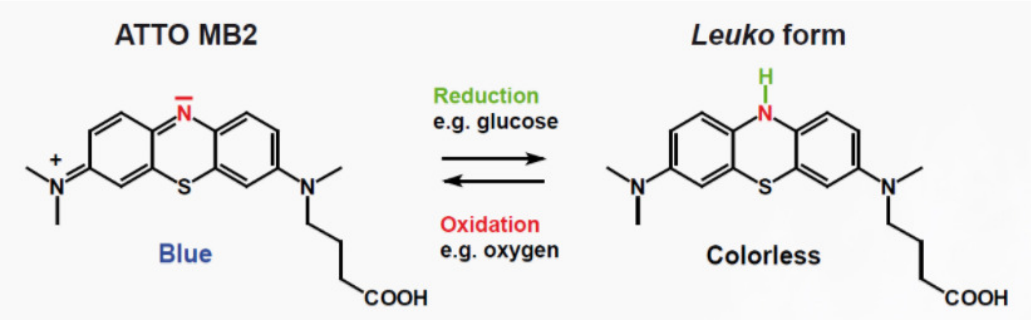
Application

Atto MB2-Biotin is a derivative of the well-known redox dye Methylene Blue. The dye can be reversibly reduced to the colorless leuko form. Upon oxidation (e.g. with oxygen) the dye recovers, and the absorption is fully restored.
The dye is suitable for labeling of DNA, RNA, proteins etc. In common with most Atto-labels the dye shows a high extinction coefficient. Atto MB2-Biotin ester is moderately hydrophilic.
The biotin derivative can be used as reagent for binding to proteins like avidin and streptavidin.

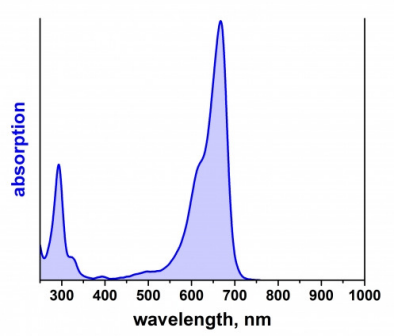
Product Description

MW	779 g/mol
λ_{abs}	658 nm
ε_{max}	1.1 x 10^5 M^{-1} cm^{-1}
CF_{260}	0.08
CF_{280}	0.24

Structure of carboxy derivative



Optical data of the carboxy derivative (in aqueous solution)



Storage: protected from moisture and light at -20°C

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.