NBD-Fructose
Item No. 9002314

CAS Registry No.: 940961-04-6
Formal Name: 1-deoxy-1-(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-D-fructose
Synonyms: 1-NBDF, 1-(7-nitro-1,2,3-benzadiazole)-Fructose
MF: C_{12}H_{14}N_{4}O_{8}
FW: 342.3
Purity: ≥ 95% (sum of isomers)
UV/Vis.: λ_{max}: 226, 330, 461 nm
Ex./Em. Max: 472/538 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥ 2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

NBD-Fructose is a fluorescent derivative of fructose that is formed by coupling NBD-chloride with the amine group of amino fructose.\(^1\) It has been used to monitor fructose uptake by the GLUT5 transporter in MCF-7, MDA-MB-435, and MDA-MB-231 human breast cancer cells. NBD-Fructose displays excitation/emission maxima of 472/538 nm, respectively.

Reference