C-6 NBD

**CAS Registry No.:** 88235-25-0  
**Formal Name:** 6-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-hexanoic acid  
**Synonyms:** C6-NBD, NBD Hexanoic Acid, NBD-X, 6-(7-Nitrobenzofurazan-4-ylamino)hexanoic Acid  
**MF:** C12H14N4O5  
**FW:** 294.3  
**Purity:** ≥96%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years  
**Special Conditions:** Protect from light and moisture

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

**Laboratory Procedures**

C-6 NBD is supplied as a solid. A stock solution may be made by dissolving the C-6 NBD in the solvent of choice. C-6 NBD is soluble in the organic solvent DMSO, which should be purged with an inert gas.

**Description**

C-6 NBD is a derivative of the environmentally-sensitive fluorophore nitrobenzoxadiazole (NBD; absorbance 465 nm, emission 535 nm). It is modified with a hexanoic acid tail, which provides a reactive carboxylic acid site. C-6 NBD has been used to synthesize a variety of fluorescently-tagged compounds for research purposes.1–5

**References**