



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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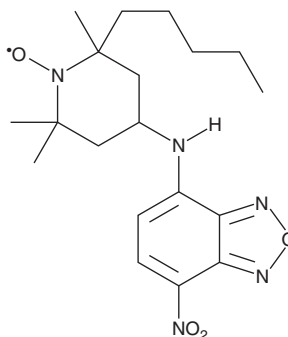
# PRODUCT INFORMATION



## NBD-Pen

Item No. 25806

**CAS Registry No.:** 1955505-54-0  
**Formal Name:** 2,2,6-trimethyl-4-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-6-pentyl-1-piperidinyloxy  
**MF:** C<sub>19</sub>H<sub>28</sub>N<sub>5</sub>O<sub>4</sub>  
**FW:** 390.5  
**Purity:** ≥95% (mixture of isomers)  
**Ex./Em. Max:** 470/530 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

### Laboratory Procedures

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

### Description

NBD-Pen is a turn-on fluorescent probe for lipid radicals.<sup>1</sup> Upon reaction with lipid radicals, NBD-pen displays excitation/emission maxima of 470 and 530 nm, respectively. It is selective for lipid radicals over peroxide, oxygen, hypochlorite, and hydroxy radicals in cell-free assays. NBD-Pen has been used in the detection of lipid radicals in *in vitro* and *in vivo* models of hepatocellular carcinoma and oxidative disease.<sup>1,2</sup>

### References

1. Yamada, K., Mito, F., Matsuoka, Y., *et al.* Fluorescence probes to detect lipid-derived radicals. *Nat. Chem. Biol.* **12**(8), 608-613 (2016).
2. Ishida, Y., Okamoto, Y., Matsuoka, Y., *et al.* Detection and inhibition of lipid-derived radicals in low-density lipoprotein. *Free Radic. Biol. Med.* **113**, 487-493 (2017).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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