



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

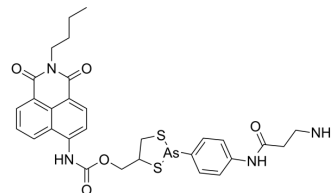
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## NEP

<b>Cat. No.:</b>	HY-D1259
<b>CAS No.:</b>	2414276-32-5
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>31</sub> AsN <sub>4</sub> O <sub>5</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	654.63
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	NEP (VDP-green (NEP)) is a turn-on fluorescent probe based on the intramolecular charge transfer (ICT) mechanism for sensing vicinal dithiol-containing proteins (VDPs). NEP exhibits high selectivity toward VDPs in live cells and in vivo and displays a strong green fluorescence signal ( $\lambda_{ex}/\lambda_{em}=430/535$ nm). NEP has the potential for parkinsonism <sup>[1]</sup> .
<b>In Vitro</b>	NEP (1-30 $\mu$ M; 6 hours) has no or little cytotoxicity in HepG2 and PC12 cells <sup>[1]</sup> . NEP (10 $\mu$ M; 4 hours) causes the fluorescence intensity to decrease gradually in PC12 cells pretreated with 6-OHDA (0, 50, 100, and 200 $\mu$ M; for 30 min) <sup>[1]</sup> . NEP contains a dithiarsolane moiety (five-membered As-S ring) as the receptor of VDPs. In the presence of VDPs, NEP displays a strong green fluorescence signal produced by the cyclic dithiarsolane cleavage and subsequent intramolecular cyclization to liberate the fluorophore. NEP maintains a reliable fluorescence response within the range of pH 7-10 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	NEP (10 $\mu$ M; for 4 h) causes the obvious green signal in zebrafishes (4 day old) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Guodong Hu, et al. Decrease of Protein Vicinal Dithiols in Parkinsonism Disclosed by a Monoarsenical Fluorescent Probe. Anal Chem. 2020 Mar 17;92(6):4371-4378.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA