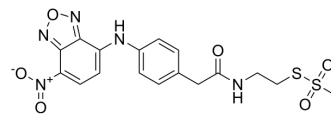


NFQ1

Cat. No.:	HY-D1682
CAS No.:	1262391-07-0
Molecular Formula:	C ₁₇ H ₁₇ N ₅ O ₆ S ₂
Molecular Weight:	451.48
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NFQ1 is a non-fluorescent quencher (absorption wavelength: 474 nm), and is used for a new type of One Sample Fluorescence Resonance Energy Transfer (OS-FRET) method. OS-FRET enable measurement of unquenched donor emission in the same sample. NFQ1 shows broad absorption spectrum ensuring its utility as a dark acceptor for many donors ^[1] .
In Vitro	NFQ1 is used for One Sample Fluorescence Resonance Energy Transfer (OS-FRET) method employing a novel, non-fluorescent methanethiosulfonate-linked acceptor that can be reversibly coupled to a target sulfhydryl residue via a disulfide bond. After the quenched donor emission is quantitated the acceptor is removed by reduction, enabling measurement of unquenched donor emission in the same sample ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Annette H Erbse, et al. OS-FRET: a new one-sample method for improved FRET measurements. *Biochemistry*. 2011 Feb 1;50(4):451-7.

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