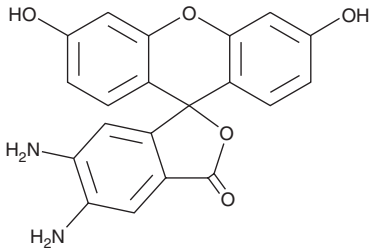
PRODUCT INFORMATION

DAF-2

Item No. 85160

CAS Registry No.:	205391-01-1
Formal Name:	2-(3,6-dihydroxy-4,5-diamino-9H-xanthen-9-yl)-benzoic acid
Synonym:	4,5-Diaminofluorescein
MF:	$C_{20}H_{14}N_2O_5$
FW:	362.3
Purity:	≥98%
Ex./Em. Max:	485/538 nm
Supplied as:	A 500 µg/ml solution in DMSO
Storage:	-20°C
Stability:	≥4 years



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

Description

DAF-2 is a sensitive fluorescent indicator commonly used for the detection of nitric oxide (NO).[1,2] It reacts with NO in the presence of oxygen to yield the highly fluorescent triazolofluorescein (DAF-2T). Fluorescence is monitored using excitation and emission wavelengths of 485 and 538 nM, respectively.[2] At neutral pH the detection limit for NO is 2-5 nM.

References

1. Kojima, H., Sakurai, K., Kikuchi, K., *et al.* Development of a fluorescent indicator for nitric oxide based on the fluorescein chromophore. *Chem. Pharm. Bull. (Tokyo)* **46(2)**, 373-375 (1998).
2. Nakatsubo, N., Kojima, H., Kikuchi, K., *et al.* Direct evidence of nitric oxide production from bovine aortic endothelial cells using new fluorescence indicators: Diaminofluoresceins. *FEBS Lett.* **427(2)**, 263-266 (1998).

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.

WARRANTY AND LIMITATION OF REMEDY
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