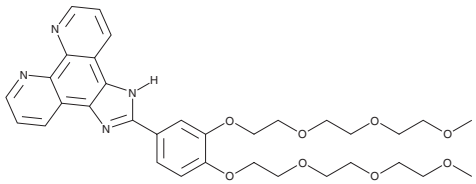
PRODUCT INFORMATION

BMIP

Item No. 9005051

CAS Registry No.:	2243061-30-3
Formal Name:	2-[3,4-*bis*[2-[2-(2-methoxyethoxy)ethoxy] ethoxy]phenyl]-1H-imidazo[4,5-f][1,10] phenanthroline
MF:	$C_{33}H_{40}N_4O_8$
FW:	620.7
Purity:	≥98%
Ex./Em. Max:	365/525 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

BMIP is supplied as a solid. A stock solution may be made by dissolving the BMIP in the solvent of choice, which should be purged with an inert gas. BMIP is soluble (≥10 mg/ml) in DMSO.

Description

BMIP is a fluorescent probe for extreme alkalinity (pH > 14) and a derivative of 1,10-phenanthroline (Item No. 28951).[1] Upon the addition of sodium hydroxide to a pH above 14, the solution shifts from non-luminous to fluorescent yellow, displaying an emission maximum of 525 nm when excited at 365 nm. BMIP has been used to quantify hydroxide ion concentration between 3-6 M in water.

Reference

1. Ma, X., Chen, S., Yu, H., *et al.* A phenanthroline-based fluorescent probe for highly selective detection of extreme alkalinity (pH > 14) in aqueous solution. *Nanoscale Res. Lett.* **14(1)**, 318 (2019).

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
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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