

Certificate of Analysis

PRODUCT: **FURA-2 (AM)**
Cell permeable acetoxymethyl ester (AM) derivative of Fura-2.
C₄₄H₄₇N₃O₂₄, M.W. 1002 g/mol, CAS# [108964-32-5]

PRODUCT NUMBER: F-1040

LOT NUMBER: K1250A

APPEARANCE: Off-White to light yellow solid

SOLUBILITY: Soluble in DMSO

PURITY (HPLC): 97%

K_d: 145 nM

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>	
<u>TLC</u>	Normal phase silica	Confirmed	
Solvent:	2:1 Ethyl Acetate/Hexanes		
R_f:	0.5		
<u>HPLC</u>			
Detector	Reverse phase C ₁₈		
Settings:	254 nm, 371 nm	<u>254nm</u>	<u>371nm</u>
Purity:	>95%	97%	97.3%

ABSORBANCE SPECTRUM

Solvent:	Ethyl Acetate	
λ max:	371 ± 3 nm	372 nm
ε:	33,000 M ⁻¹ cm ⁻¹	33,000

FLUORESCENCE SPECTRUM

Solvent:	Ethyl Acetate	
Excitation λ max:	371 ± 3 nm	368 nm
Emission λ max:	471 ± 3 nm	472 nm

COUNTRY of ORIGIN: USA



STORAGE & HANDLING: Store at -20°C. **PROTECT FROM LIGHT & MOISTURE!**

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

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