

CERTIFICATE OF ANALYSIS

PRODUCT: **FURA-2 (AM)**
 Cell permeable acetoxymethyl ester (AM) derivative of Fura-2.
 $C_{44}H_{47}N_3O_{24}$, M.W. 1002 g/mol, CAS# [108964-32-5]

PRODUCT NUMBER: F-1040

LOT NUMBER: J1057A

APPEARANCE: Off-White to light yellow solid

SOLUBILITY: Soluble in DMSO

PURITY (HPLC): $\geq 95\%$

K_d: 145 nM

<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
TLC	
Solvent: 2:1 Ethyl Acetate/Hexanes	Confirmed
R _f : 0.5	
HPLC	
Detector: Reverse phase C ₁₈	
Settings: 254 nm, 371 nm	<u>254nm</u> <u>371nm</u>
Purity: >95%	97.1% 97.3%

ABSORBANCE SPECTRUM

Solvent: Ethyl Acetate	
λ max: 371 \pm 3 nm	370 nm
ϵ : 33,000 M ⁻¹ cm ⁻¹	33,000

FLUORESCENCE SPECTRUM

Solvent: Ethyl Acetate	
Excitation λ max: 371 \pm 3 nm	370 nm
Emission λ max: 471 \pm 3 nm	470 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.

Verified: KLS