

Certificate of Analysis

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Product Name: Mpro Tracer

Catalog No.: 8126

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Weight:	909.41
Physical Appearance:	Orange solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C

2. ANALYTICAL DATA

HPLC:	Shows 95.2 % purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
λ_{max}:	495 nm (0.01M PBS pH 7.4)
λ_{ex}:	494 nm (0.01M PBS pH 7.4)
λ_{em}:	521 nm (0.01M PBS pH 7.4)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Mpro Tracer is a high affinity ($K_d = 51$ nM) non-covalent SARS-CoV-2 main protease fluorescent ligand. Mpro Tracer can be used in fluorescent polarisation (FP) assay for inhibitor screening/characterisation. It can be used as a FRET acceptor in time-resolved fluorescence resonance energy-transfer (TR-FRET) experiments. Excitation and emission maxima (λ) are 492 nm and 518 nm.

Physical and Chemical Properties:

Batch Molecular Weight: 909.41

Physical Appearance: Orange solid

Minimum Purity: $\geq 95\%$

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 10 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45\text{--}60^\circ\text{C}$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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