

Product Data Sheet

Product Name: ZY-2 (solution)

Cat. No.: GC81421

Chemical Properties

Cas. No.

Formula $C_{40}H_{43}N_7O_5S_2$

M.Wt 765.94

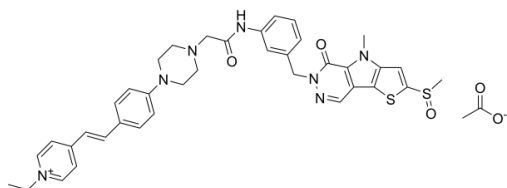
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

ZY-2 (solution) is a fluorescent probe targeting pyruvate kinase M2 (PKM2) with an excitation wavelength of 419 nm. ZY-2 (solution) significantly activates purified PKM2 protein. ZY-2 (solution) exhibits enhanced fluorescence emission in low-polarity or high-viscosity environments. ZY-2 (solution) enables highly sensitive and selective fluorescence imaging of PKM2 in live PKM2-positive cancer cells, with no significant side effects on cell viability within its effective concentration range. ZY-2 (solution) can be used for cervical cancer research [1]. Solvent and concentration: DMSO: 10 mM

Caution: Product has not been fully validated for medical applications. For research use only.

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In Vitro, ZY-2 (1 μ M) significantly activates the pyruvate kinase activity of purified PKM2 protein, reaching a relative activity of ~800%^[1].

References:

[1]. Zhang Y, et al. A responsive fluorescent probe for detecting and imaging pyruvate kinase M2 in live cells. Chemical communications (Cambridge, England). 2022 Jun 01;58(45):6494-6497.

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