

Product Data Sheet

Product Name: SOS1-IN-1

Cat. No.: GC30511

Chemical Properties

Cas. No. 4551-00-2

SMILES O=[N+](O-)[C1=CC=CC=C1/C=C/C=C2C3=CC=CC=C3C4=CC=CC=C\24

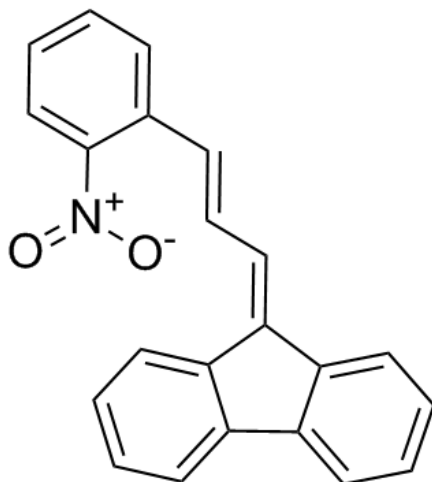
Formula C22H15NO2 M.Wt 325.36

Solubility DMSO: 12.5 mg/mL (38.42 mM) Storage Store at -20°C, unstable in solution, ready to use.

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 sizes: ship with RT, or blue ice upon request.

Structure



Protocol

Cell experiment: MIA paca-2 cells (KRAS G12 C) are subjected to a 3-day proliferation assay following treatment with SOS1-IN-1 (NSC-70220: 40 µM), treatment with NSC-658497 (30 µM) and treatment with a combination of SOS1-IN-1 (40 µM) and NSC-658497 (30 µM). DMSO is used as the negative control[1].

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

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References:

[1]. ARYL SULFONOHYDRAZIDES. WO 2016077793A1.

Background

SOS1-IN-1 is a SOS1 inhibitor.

The growth inhibitory rate (IR)=(average OD value in the control group-average OD value in the treatment group)/average OD value in the control group×100% are compared. Treatments with SOS1-IN-1 at 40 μM and NSC-658497 at 30 μM result in growth inhibitory rate of 29% and 8% respectively. The combination treatment results in growth inhibitory rate of 54%, showing the synergistic effect of SOS1-IN-1 and NSC-658497 on cell growth inhibition. It is showed that the treatment with NSC-658497 at 40 μM for 2 hours alone or in combination with the treatment with 40 μM of SOS1-IN-1 overnight resulted in lower expression levels of P-AKT and P-ERK. The treatment with 40 μM of SOS1-IN-1 overnight resulted in lower expression levels of P-ERK[1].

[1]. ARYL SULFONOHYDRAZIDES. WO 2016077793A1.

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