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## Product Data Sheet

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Product Name: TrxR-IN-5

Cat. No.: GC68461

### Chemical Properties

Cas. No.

Formula C<sub>26</sub>H<sub>22</sub>O<sub>3</sub>

M.Wt 382.45

Solubility DMSO : 50 mg/mL (130.74 mM; ultrasonic and heat to 60°C)

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

TrxR-IN-5 (compound 4f) is a potent **TrxR** (thioredoxin reductase) inhibitor, with an **IC<sub>50</sub>** of 0.16 μM. TrxR-IN-5 increases the levels of ROS, thus leading to potent antiproliferative effects. TrxR-IN-5 exhibits prominent anticancer and anti-metastasis effects<sup>[1]</sup>.

TrxR-IN-5 (compound 4f) (MDA-MB-231 xenograft in BALB/c nude mice, 0-25 mg/kg, IP, once) shows strong inhibition potency toward solid tumors of breast cancer *in vivo*<sup>[1]</sup>.

[1]. Meng C, et al. Efficacy of novel methylenecyclohexenone derivatives as TrxR inhibitors in suppressing the proliferation and metastasis of human cancer cells. *Bioorg Chem.* 2020 Dec;105:104360.

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

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