

WR-S-462

## Chemical Properties

CAS No. :

Formula: C<sub>24</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub>S

Molecular Weight: 462.52

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	WR-S-462 is a STAT3 inhibitor. It effectively blocks the phosphorylation and biological functions of STAT3 in vitro. The IC <sub>50</sub> of WR-S-462 for inhibiting MDA-MB-231 cells is 0.03 μM, and it exhibits a strong binding affinity for STAT3 protein with a K <sub>d</sub> of 58 nM. WR-S-462 prevents the nuclear translocation of p-STAT3 and selectively inhibits the expression of p-STAT3Tyr705 in MDA-MB-231 cells, as well as the expression of downstream target genes regulated by STAT3, such as Cyclin D1, Bcl-2, and Bcl-xl. This compound inhibits the growth and metastasis of triple-negative breast cancer (TNBC).
Targets(IC50)	Bcl-2 Family,STAT

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1621 mL	10.8103 mL	21.6207 mL
5 mM	0.4324 mL	2.1621 mL	4.3241 mL
10 mM	0.2162 mL	1.081 mL	2.1621 mL
50 mM	0.0432 mL	0.2162 mL	0.4324 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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