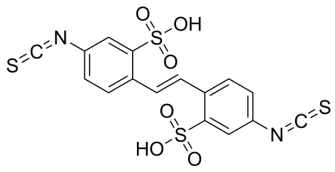
DIDS

Cat. No.:	HY-121693
CAS No.:	53005-05-3
Molecular Formula:	$C_{16}H_{10}N_2O_6S_4$
Molecular Weight:	454.52
Target:	RAD51
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DIDS is a potent RAD51 inhibitor. DIDS inhibits the RAD51-mediated homologous pairing and strand-exchange reactions. DIDS inhibits anion exchange and binding to the red blood cell membrane[1][2].
In Vitro	DIDS (0-10 μM) inhibits RAD51-mediated strand exchange[1]. DIDS (0-20 μM) inhibits DNA binding by RAD51[1]. DIDS (10 μM; 0-60 min) stimulates the ATP hydrolyzing activity of RAD51 in the absence of DNA[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Adv Sci (Weinh). 2021 Nov;8(21):e2101936.
- Autophagy. 2021 Nov;17(11):3592-3606.
- Life Sci. 2020 Oct 15;259:118390.
- Cancer Sci. 2020 Nov;111(11):4288-4302.
- J Cell Mol Med. 2021 May 5.

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REFERENCES

[1]. Ishida T, et, al. DIDS, a chemical compound that inhibits RAD51-mediated homologous pairing and strand exchange. Nucleic Acids Res. 2009 Jun;37(10):3367-76.

[2]. Lepke S, et, al. A study of the relationship between inhibition of anion exchange and binding to the red blood cell membrane of 4,4'-diisothiocyano stilbene-2,2'-disulfonic acid (DIDS) and its dihydro derivative (H2DIDS). J Membr Biol. 1976 Oct 20;29(1-2):147-77.

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

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