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Data Sheet

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Product Name	:	Trastuzumab deruxtecan
Cat. No.	:	PC-28465
CAS No.	:	1826843-81-5
Molecular Formula	:	
Molecular Weight	:	153000 (average)
Target	:	Antibody-drug conjugate (ADCs)
Solubility	:	10 mM in DMSO

Trastuzumab deruxtecan

Biological Activity

Trastuzumab deruxtecan (T-DXd, DS-8201a) is a HER2-targeting antibody-drug conjugate with a topoisomerase I inhibitor exatecan derivative (DX-8951 derivative, DXd) at a drug-to-antibody ratio (DAR) of 7-8, shows potent antitumor activity HER2-positive cancers.
Trastuzumab deruxtecan (T-DXd, DS-8201a) exhibits a HER2 expression-dependent cell growth-inhibitory activity and induced tumor regression with a single dosing at more than 1 mg/kg in a HER2-positive gastric cancer NCI-N87 model.
Trastuzumab deruxtecan (T-DXd, DS-8201a) also shows an inhibitory activity to Akt phosphorylation.
Trastuzumab deruxtecan (T-DXd, DS-8201a) induces phosphorylation of Chk1 and Histone H2A.X, the markers of DNA damage. effective in a T-DM1-insensitive PDX model with high HER2 expression.

References

Nagai Y, et al. Xenobiotica. 2019 Sep;49(9):1086-1096.

Iwata TN, et al. Mol Cancer Ther. 2018 Jul;17(7):1494-1503.

Ogitani Y, et al. Clin Cancer Res. 2016 Oct 15;22(20):5097-5108.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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