

Product Name: ZE 132

Catalog No.: 7533

Batch No.: 1

CAS Number: 2566710-63-0

IUPAC Name: 2-[[[5-Chloro-2-[(5-cyano-3-pyridinyl)methoxy]-4-[[3-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-methylphenyl]methoxy]phenyl]methyl][3-(dimethylamino)propyl]amino]ethanesulfonic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₇H₄₁ClN₄O₇S.2½H₂O

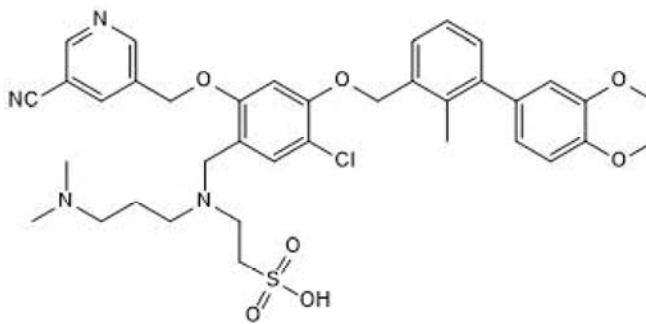
Batch Molecular Weight: 766.31

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.99	6.05	7.31
Found	57.82	5.67	7.26

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Description:

ZE 132 binds to programmed cell death-ligand 1 (PD-L1) with high affinity ($K_D = 19.36$ nM); it potently and selectively inhibits the interaction between programmed cell death-1 (PD-1) and PD-L1 ($IC_{50} = 23.49$ nM). ZE 132 promotes CD8⁺ T cell activation and improves the *in vitro* cytotoxic killing activity of T-cells. ZE 132 treatment can increase Cxcl9 mRNA expression and lower Tgfb1 mRNA expression in CT26 mouse colorectal cancer model. ZE 132 shows antitumor effects, inhibiting growth of CT26 tumors in mice by 64%.

Physical and Chemical Properties:

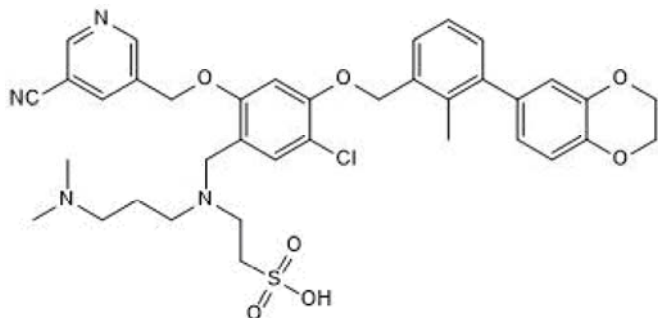
Batch Molecular Formula: $C_{37}H_{41}ClN_4O_7S \cdot 2\frac{1}{2}H_2O$

Batch Molecular Weight: 766.31

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Liu *et al* (2021) Discovery of a novel, potent and selective small-molecule inhibitor of PD-1/PD-L1 interaction with robust *in vivo* anti-tumour efficacy. *Br.J.Pharmacol.* **178** 2651. PMID: 33768523.

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