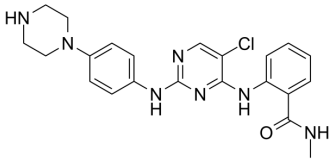
CTX-0294885

Cat. No.:	HY-15985
CAS No.:	1439934-41-4
Molecular Formula:	$C_{22}H_{24}ClN_7O$
Molecular Weight:	437.93
Target:	Akt
Pathway:	PI3K/Akt/mTOR
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (228.35 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2835 mL	11.4173 mL	22.8347 mL
	5 mM	0.4567 mL	2.2835 mL	4.5669 mL
	10 mM	0.2283 mL	1.1417 mL	2.2835 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.71 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CTX-0294885 is a broad spectrum kinase inhibitor that can capture 235 kinases from MDA-MB-231 cells, and can capture all members of the AKT family. CTX-0294885 is a powerful reagent for analysis of kinome signaling networks that can be used for the research of diseases like inflammation, diabetes, and cancer[1].

In Vitro

CTX-0294885 is a kinase capture tool in large-scale kinome profiling experiments, with 185 kinases identified as total protein, and 179 identified from TiO_2 enrichment for phosphopeptides in MDA-MB-231 cells (by quantitative MS)[1]. CTX-0294885 captures all members of the AKT family that is not identified from previous studies using other kinase capture reagents[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Mol Sci. 2021, 22(6), 3063.
- ChemMedChem. 2017 Nov 22;12(22):1857-1865.

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REFERENCES

[1]. Zhang L, et al. Characterization of the novel broad-spectrum kinase inhibitor CTx-0294885 as an affinity reagent for mass spectrometry-based kinome profiling. J Proteome Res. 2013 Jul 5;12(7):3104-16.

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