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# Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

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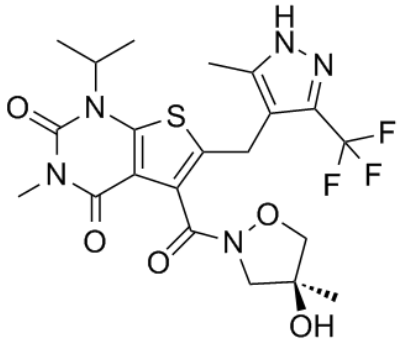
|---|---|---|
| **Product Name** | : | AZD3965 |
| **Cat. No.** | : | PC-43178 |
| **CAS No.** | : | 1448671-31-5 |
| **Molecular Formula** | : | $C_{21}H_{24}F_3N_5O_5S$ |
| **Molecular Weight** | : | 515.506 |
| **Target** | : | Monocarboxylate Transporter (MCT) |
| **Solubility** | : | DMSO: ≥ 36 mg/mL |



## Biological Activity

AZD3965 (AZD-3965) is a potent, selective, orally bioavailable monocarboxylate transporter 1 (**MCT1**) inhibitor with binding IC50 of 1.6 nM, displays 6-fold selectivity over MCT2 and does not inhibit MCT3 or MCT4.
AZD3965 inhibits both lactate efflux and influx into cells and causes an increase in glycolysis and an upregulation of glycolytic enzymes in SCLC and gastric cancer cell lines.
AZD3965 reduces tumor growth and increases intratumor lactate in vivo, enhances radiosensitivity by reducing lactate transport.

## References


Polański R, et al. ***Clin Cancer Res***. 2014 Feb 15;20(4):926-937.

Bola BM, et al. ***Mol Cancer Ther.*** 2014 Dec;13(12):2805-16.

Hong CS, et al. ***Cell Rep***. 2016 Feb 23;14(7):1590-1601.

Beloueche-Babari M, et al. ***Cancer Res***. 2017 Nov 1;77(21):5913-5924.





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