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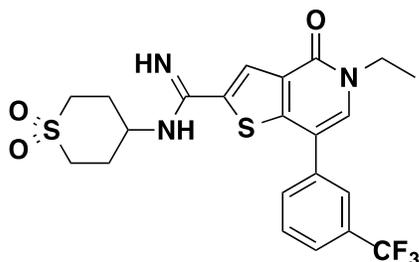
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Bromodomain Containing Protein 9 (BRD9) Inhibitor – I-BRD9

Chemical Name: N-(1,1-dioxidotetrahydro-2H-thiopyran-4-yl)-5-ethyl-4-oxo-7-(3-(trifluoromethyl)phenyl)-4,5-dihydrothieno[3,2-c]pyridine-2-carboximidamide



Molecular Weight:	497.55
Formula:	C ₂₂ H ₂₂ F ₃ N ₃ O ₃ S ₂
Purity:	≥98%
CAS#:	1714146-59-4
Solubility:	DMSO up to 100 mM
Storage	Powder: 4°C 1 year DMSO: 4°C 3 month -20°C 1 year

Biological Activity:

I-BRD9 is a potent, selective and cell permeable Bromodomain Containing Protein 9 (BRD9) inhibitor with K_d ~1.9 nM. It has >700-fold selectivity over the BET family and 200-fold over the highly homologous bromodomain-containing protein 7 (BRD7). It downregulates CLEC1, DUSP6, FES and SAMS1 genes in Kasumi-1 cells. I-BRD9 is the first selective tool compound available to elucidate the cellular phenotype of BRD9 bromodomain inhibition.

How to Use:

In vitro: I-BRD9 was used at 10 μM final concentration in vitro and in cellular assays.

In vivo: n/a

Reference:

1. Theodoulou NH, et al. Discovery of I-BRD9, a Selective Cell Active Chemical Probe for Bromodomain Containing Protein 9 Inhibition. (2015) J Med Chem. In press.

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