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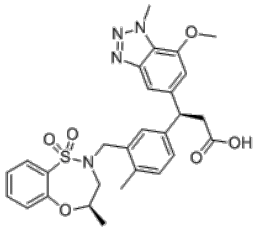
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	KI-696
Cat. No.	:	PC-38460
CAS No.	:	1799974-70-1
Molecular Formula	:	$C_{28}H_{30}N_4O_6S$
Molecular Weight	:	550.63
Target	:	Keap1-Nrf2
Solubility	:	10 mM in DMSO



Biological Activity

KI-696 (KI696) is a highly potent, selective inhibitor of KEAP1-NRF2 interaction, exhibits very high affinity for the KEAP1 Kelch domain with ITC Kd of 1.3 nM.
KI-696 displays high selectivity against a panel of 49 in vitro functional assays for targets, with the exception of the OATP1B1 (IC50=2.5 μM), the bile salt export pump BSEP (IC50=4.0 μM), and PDE3A (IC50=10 uM).
KI-696 increases NRF2 nuclear translocation in normal human bronchial epithelial cells, up-regulates NRF2-dependent gene expression NQO1 and GCLM, and increases NQO1 activity in an NRF2-dependent manner.
KI-696 significantly reduces ozone-induced pulmonary inflammation, restores ozone-induced depletion of lung GSH levels in vivo.

References

Thomas G Davies, et al. J Med Chem. 2016 Apr 28;59(8):3991-4006.

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