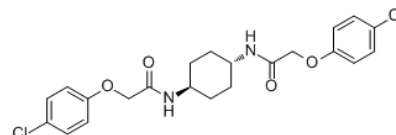


Product Name : trans-ISRIB
Cat. No. : PC-43062
CAS No. : 1597403-47-8
Molecular Formula : C₂₂H₂₄Cl₂N₂O₄
Molecular Weight : 451.343
Target : PERK
Solubility : DMSO: ≥ 38 mg/mL



Biological Activity

trans-ISRIB is a potent inhibitor of **PERK** signaling, potently reverses the effects of **eIF2α** phosphorylation with IC₅₀ of 5 nM. ISRIB reduces the viability of cells subjected to PERK-activation by chronic endoplasmic reticulum stress, display significant enhancement in spatial and fear-associated learning.

ISRIB is a potent inhibitor of the integrated stress response (ISR) integrated stress response (ISR), 100-fold more potent than cis-ISRIB (IC₅₀=600 nM).

References

Sidrauski C, et al. *Elife*. 2013 May 28;2:e00498.

Sidrauski C, et al. *Elife*. 2015 Feb 26;4.

Halliday M, et al. *Cell Death Dis*. 2015 Mar 5;6:e1672.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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