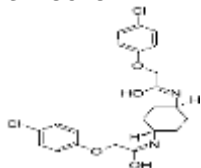


PRODUCT: *trans*-ISRIB**ALTERNATE NAMES:** *N,N'*-*trans*-1,4-cyclohexanediyibis[2-(4-chlorophenoxy)acetamide]; ISRIB**CATALOG NUMBER:** B1906-5,25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₂H₂₄Cl₂N₂O₄**MOLECULAR WEIGHT:** 451.3**CAS NUMBER:** 1597403-47-8**APPEARANCE:** White solid**SOLUBILITY:** DMSO (~5 mg/ml)**PURITY:** ≥98% by TLC**STORAGE:** Store at -20 °C. Protect from air and light

DESCRIPTION: *trans*-ISRIB is an integrated stress response inhibitor. Potently reverses the effects of initiation factor 2α (eIF2α) phosphorylation (IC₅₀ = 5 nM). Enhances spatial and fear-associated learning in mice and enhances cognitive function. Mechanism of action involves activation of eIF2β. Suppresses ER stress-induced inflammatory gene expression. Potently attenuates amyloid β-induced neuronal cell death (12.5-25 nM) with no effect on amyloid β production. Reverses hippocampal-dependent cognitive deficits induced by traumatic brain injury in two different injury mouse models.

REFERENCES: Sidrauski, C., *et al.* (2013). *Elife* **2**, 1-22.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**APP (His-tagged), Human Recombinant (**7887**)APP antibody (CT) (**5045**)APP antibody (**6001**)TBPB (**B1041**)**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**