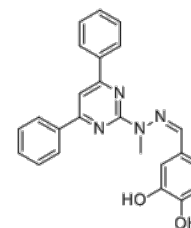


Product Name : PERK activator MK-28
Cat. No. : PC-72030
CAS No. : 864388-65-8
Molecular Formula : C₂₄H₂₀N₄O₂
Molecular Weight : 396.45
Target : PERK
Solubility : 10 mM in DMSO



Biological Activity

PERK activator MK-28 is a potent, selective small molecule **PERK activator** with EC₅₀ of 490 nM.

MK-28 shows little or no effect on EIF2AK1 (HRI) or EIF2AK2 (PKR), weakly activated EIF2AK4 (GCN2) with EC₅₀ of 3.5 μM, also displays high selectivity on a panel of 391 kinases.

MK-28 rescues cells from ER stress-induced apoptosis.

MK-28 is predicted to interact with the PERK activation loop and its cellular protective effect is PERK-dependent and more potent than CCT020312.

MK-28 exhibits brain penetrance and improves neurological functions in the R6/2 HD mouse model.

MK-28 improves systemic function and survival in R6/2 mice and induces increased levels of eIF2α-P in the mouse brain striatum.

References

Javier Ganz, et al. *Sci Rep.* 2020 Apr 23;10(1):6875.

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

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