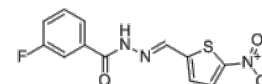


Product Name : MitoBloCK-10
Cat. No. : PC-35922
CAS No. : 394694-98-5
Molecular Formula : C₁₂H₈FN₃O₃S
Molecular Weight : 293.272
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

MitoBloCK-10 (MB-10) is a potential attenuator of protein import into mitochondria via targeting **Tim44**, inhibits the import of substrates that use the TIM23 import pathway.

MitoBloCK-10 targets Tim44 and mutations in the α4 helix of the C-terminal domain of Tim44 confer resistance to MitoBloCK-10 (MB-10).

MitoBloCK-10 (MB-10) inhibits Tim44 binding to the precursor and to Hsp70, but not other component of the PAM complex.

MitoBloCK-10 inhibits Hela cell viability with IC₅₀ of 17.2 μM in MTT assays, impairs cardiac development and induces apoptosis in zebrafish.

References

Conti, M. (2018). Small Molecule Probes of Mitochondrial Translocases Elucidate PINK1 Trafficking in PINK1/Parkin Regulated Mitophagy. UCLA.

Miyata N, et al. J Biol Chem. 2017 Mar 31;292(13):5429-5442.

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

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