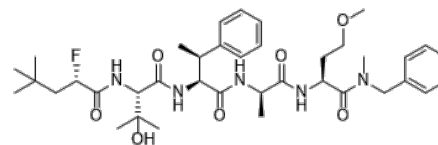


Product Name : G3BP inhibitor a
Cat. No. : PC-21744
CAS No. : 3036029-72-5
Molecular Formula : C₃₈H₅₆FN₅O₇
Molecular Weight : 713.89
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 3036029-72-5

Biological Activity

FAZ-3532 (G3BP inhibitor a, G3Ia) is a specific, peptide mimetic inhibitor of RNA-binding proteins **G3BP1/2** with SPR K_d value of 0.54 uM, blocks the association of G3BP with its binding partners and inhibits condensation of G3BP both in vitro and in live cells.

G3BP inhibitor a (G3Ia) binds the NTF2L domain of G3BP1.

G3BP inhibitor a (G3Ia) disrupt in vitro condensation of RNA, G3BP1, and caprin 1.

G3BP inhibitor a (G3Ia) (50 uM) inhibits stress granule formation in HeLa cells about 72%.

G3BP inhibitor a (G3Ia) (50 uM) reduces eIF3η, PABPC1, and FXR1 puncta, indicating disassembly of stress granules beyond simple extraction of G3BP1, does not influence the rate of translation in cells.

G3BP inhibitor a (G3Ia) prevents the formation of stress granules and dissolves preformed stress granules in human iPSC-derived neurons, dissolves stress granules formed in response to expression of a disease-causing VCP mutant.

References

Freibaum BD, et al. *J Cell Biol.* 2024 Mar 4;223(3):e202308083.

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

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