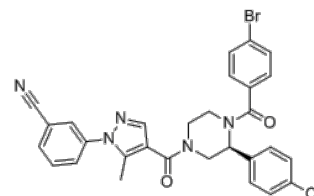


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<b>Product Name</b>	: eIF4A3 inhibitor 53a
<b>Cat. No.</b>	: PC-61019
<b>CAS No.</b>	: 2095486-67-0
<b>Molecular Formula</b>	: C <sub>29</sub> H <sub>23</sub> BrClN <sub>5</sub> O <sub>2</sub>
<b>Molecular Weight</b>	: 588.89
<b>Target</b>	: Eukaryotic Initiation Factor (eIF)
<b>Solubility</b>	: 10 mM in DMSO



## Biological Activity

eIF4A3 inhibitor 53a (eIF4A3-IN-1) is a potent, selective and cell-active eukaryotic initiation factor 4A3 (**eIF4A3**) inhibitor with IC<sub>50</sub> of 0.26 μM, SPR K<sub>d</sub> of 43 nM.

eIF4A3 inhibitor 53a displays no activity against eIF4A1, eIF4A2, DHX29 and BRR2 ATPase (IC<sub>50</sub>>100 μM).

eIF4A3 inhibitor 53a binds to a non-ATP binding site of eIF4A3, exhibits cellular nonsense-mediated RNA decay (NMD) inhibitory activity and represents a novel molecular probe for further study of eIF4A3, the exon junction complex (EJC) and NMD.

## References

Ito M, et al. *J Med Chem.* 2017 Apr 27;60(8):3335-3351.

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

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