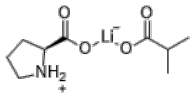
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	IsoLiPro
Cat. No.	:	PC-23143
CAS No.	:	3008260-88-3
Molecular Formula	:	$C_9H_{16}LiNO_4$
Molecular Weight	:	209.17
Target	:	Deubiquitinase (DUB)
Solubility	:	10 mM in DMSO



Biological Activity

IsoLiPro is a novel small molecule **USP11** inhibitor, reduces the USP11 protein level and suppressesthe USP11-mediated substrate deubiquitination.
IsoLiPro markedly reduces levels of total and phosphorylated tau in cultured cells overexpressing wild-type full-length human tau.
IsoLiPro markedly decreases USP11 protein level in SH-SY5Y cells and the mice brain.
IsoLiPro showed a strong binding affinity to USP11 (MST KD of 4.3394E-05 M), also demonstrated some extent of binding to other USPs, but the binding affinities are lower than USP11.
IsoLiPro markedly increases tau ubiquitination levels in HEK293-hTau cells.
IsoLiPro markedly induces tau clearance in the brain of 3xTg-AD and 5xFAD mice.

References

Guo Y, et al. ***EMBO Mol Med.*** 2024 Oct 11. doi: 10.1038/s44321-024-00146-7.

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

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