

Product Data Sheet

Product Name: KB02-SLF

Cat. No.: GC62186

Chemical Properties

Cas. No. 2384184-40-9

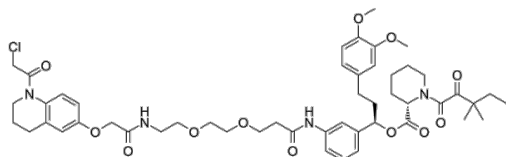
Formula $C_{50}H_{65}ClN_4O_{12}$ M.Wt 949.52

Solubility DMSO : 100 mg/mL (105.32 mM; Storage 4°C, away from moisture and light
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

KB02-SLF is a PROTAC-based nuclear FKBP12 degrader (molecular glue). KB02-SLF promotes nuclear FKBP12 degradation by covalently modifying DCAF16 (E3 ligase) and can improve the durability of protein degradation in biological systems. SLF binds ubiquitin E3 ligase ligand KB02 via a linker to form KB02-SLF[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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KB02-SLF (2 μ M; 4-72 hours; HEK293T cells) treatment promotes a substantial reduction in nuclear FKBP12 that is sustained across a 4-72 h time frame[1]. Cell imaging studies confirms the selective loss of nuclear-localized FKBP12 in KB02-SLF-treated cells. KB02-SLF promotes the loss of FKBP12_NLS across a concentration of $\sim$ 0.5-5 μ M, but shows varied reductions in activity at higher concentrations. The degradation of FKBP12_NLS induced by KB02-SLF is mediated by DCAF16[1].

[1]. Zhang X, et al. Electrophilic PROTACs that degrade nuclear proteins by engaging DCAF16. Nat Chem Biol. 2019 Jul;15(7):737-746.

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