

Product Data Sheet

Product Name: PROTAC ERR α Degradar-3

Cat. No.: GC62307

Chemical Properties

Cas. No. 2306388-65-6

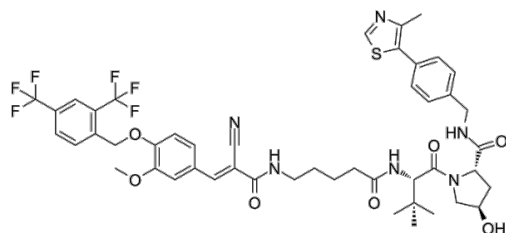
Formula C₄₇H₅₀F₆N₆O₇S M.Wt 956.99

Solubility DMSO : 80 mg/mL (83.60 mM; Need ultrasonic) Storage Store at -20°C

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

PROTAC ERR α Degradar-3 is a potent and selective ERR α degrader based on PROTAC. PROTAC ERR α Degradar-3 is capable of specifically degrading ERR α protein by >80% at a concentration of 30 nM. PROTAC ERR α Degradar-3 is inactive against ERR β and ERR γ proteins[1].

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

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PROTAC ERR α Degradator-3 (compound 6c; 0.3 nM-10 μ M; 4 hours) dose-dependently induces ERR α degradation with an efficacious dose as low as 3.0 nM at 4.0 h. PROTAC ERR α Degradator-3 potently decreases protein levels of ERR α downstream target genes, e.g., ATP5B, medium-chain acyl CoA dehydrogenase (MCAD), and pyruvate dehydrogenase kinase 4 (PDK4) in the MDA-MB-231 cells after a 24 h treatment[1]. PROTAC ERR α Degradator-3 exhibits an IC₅₀ value of 12.67 nM to block the protein-protein interaction of ERR α with PGC-1 α peptide and induces approximately 96% protein degradation at 100 nM (D100 nM) after 4.0 h treatment[1].

[1]. Lijie Peng, et al. Identification of New Small-Molecule Inducers of Estrogen-related Receptor α (ERR α) Degradation. ACS Med Chem Lett. 2019 Apr 12;10(5):767-772.

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