

Product Data Sheet

Product Name: Ferritin PROTAC DeFer-2

Cat. No.: GC91060

Chemical Properties

Cas. No.

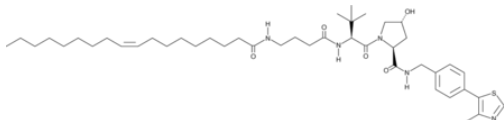
Formula $C_{44}H_{69}N_5O_5S$ M.Wt 780.1

Solubility DMF: 20 mg/ml, DMSO: 10 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): Slightly
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

Ferritin PROTAC DeFer-2 is a proteolysis-targeting chimera (PROTAC) containing oleic acid, which binds to ferritin dimers, conjugated to von Hippel-Lindau ligand, which binds to VHL E3 ligase, *via* an alkyl linker.¹ It induces ferritin degradation in B16/F10 murine melanoma cells when used at a concentration of 0.5 μ M, an effect not induced by a negative control with an inverted VHL ligand 1 stereocenter, indicating that the E3 ligase activity of VHL ligand 1 is required for this effect. Ferritin PROTAC DeFer-2 (5 μ M) increases intracellular levels of free iron and induces pyroptosis in B16/F10 cells. Ferritin PROTAC De-Fer-2 (10 mg/kg) encapsulated in albumin nanoparticles reduces tumor growth and increases survival in a B16/F10 murine melanoma model.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA