

Product Data Sheet

Product Name: Glutaminyl cyclases-IN-1

Cat. No.: GC73334

Chemical Properties

Cas. No. 3032400-33-9

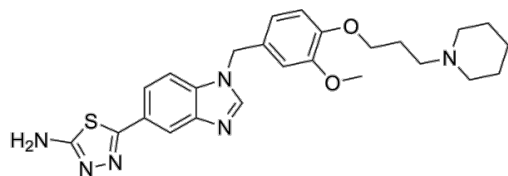
Formula $C_{25}H_{30}N_6O_2S$ M.Wt 478.61

Solubility DMSO : 100 mg/mL (208.94 mM; Storage -20°C
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

Glutaminyl cyclases-IN-1 (IsoQC-IN-1) is a potent glutaminyl cyclases (QC) inhibitor with IC₅₀ values of 12 nM and 73 nM for human QC and isoQC, respectively. Glutaminyl cyclases-IN-1 can selectively

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

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interfere with the interaction of CD47/SIRP α through isoQC inhibition, and enhances the increased phagocytic activity of both THP-1 and U937 macrophages.

Glutaminyl cyclases-IN-1 (compound 22b) (0-20 μ M; 24 or 48 h; A549 and H1975) increases the phagocytic activity of both THP-1 and U937 macrophages in a dose-dependent manner in A549 and H1975 cells; decreases the surface expression level of α hCD47-CC2C6 without interfering in α hCD47-B6H12 binding with CD47[1].

References:

[1]. Eunsun Park, et al. 2-Amino-1,3,4-thiadiazoles as Glutaminyl Cyclases Inhibitors Increase Phagocytosis through Modification of CD47-SIRP α Checkpoint. ACS Med. Chem. Lett. 2022.

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