

Product Data Sheet

Product Name: ADT-007

Cat. No.: GC73765

Chemical Properties

Cas. No. 1945941-09-2

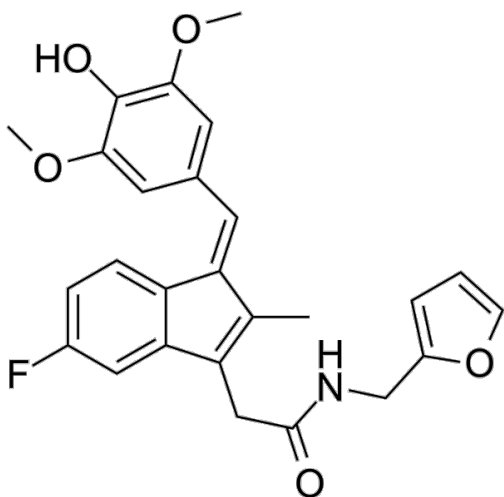
Formula $C_{26}H_{24}FNO_5$ M.Wt 449.47

Solubility DMSO : 125 mg/mL (278.11 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

ADT-007 is a potent and orally active pan-RAS inhibitor with strong anticancer effects. ADT-007

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

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binds RAS in a nucleotide-free conformation to block GTP activation. ADT-007 potently and selectively inhibits the growth of cancer cells with mutated or per-activated wild-type RAS isozymes.

ADT-007 displays the highest potency and selectivity to inhibit the growth of KRASG13D HCT-116 cells with an IC₅₀ of 5 nM, while RAS 110 wild-type HT-29 cells are ~100 fold less sensitive with an IC₅₀ of 493 nM. ADT-007 displays even greater potency in KRAS G12C MIA PaCa-2 PDA cells, resulting in IC₅₀ values as low as 2 nM. ADT-007 also potently inhibits the growth of three other mutant KRAS PDA cell lines with G12V or G12D mutations[1].

ADT-007 (10 mg/kg; intra-tumoral injection; once a day; for 17-21 days) strongly inhibits tumor growth in syngeneic immune competent mouse models of colorectal cancer[1].

References:

[1]. Jeremy B Foote, et al. A Novel Pan-RAS Inhibitor with a Unique Mechanism of Action Blocks Tumor Growth in Mouse Models of GI Cancer. bioRxiv[Preprint]. 2024 Jan 24:2023.05.17.541233.

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