

## Product Data Sheet

Product Name: Entrectinib-d8

Cat. No.: GC72974

### Chemical Properties

Cas. No. 2251773-94-9

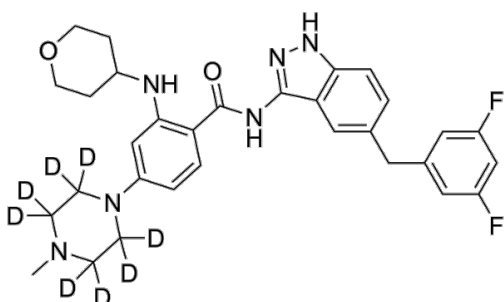
Formula  $C_{31}H_{26}D_8F_2N_6O_2$  M.Wt 568.69

Solubility DMSO : 100 mg/mL (175.84 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

Entrectinib-d8 (NMS-E628-d8; RXDX-101-d8) is a deuterated version of Entrectinib . Entrectinib (NMS-E628) is an orally available, blood-brain barrier permeable, central nervous system active TrkA/B/C, ROS1 and ALK inhibitor with IC50 values of 1, 3, 5, 12 and 12, respectively. 7 nM. Entrectinib induces apoptosis and cycle arrest in cancer cells, has anti-tumor activity, and also alleviates bleomycin-induced pulmonary fibrosis in mice.

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

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### References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Miao Y, et al. Entrectinib ameliorates bleomycin-induced pulmonary fibrosis in mice by inhibiting TGF- $\beta$ 1 signaling pathway. *Int Immunopharmacol*. 2022 Dec;113(Pt B):109427.
- [3]. Ardini E, et al. Entrectinib, a Pan-TRK, ROS1, and ALK Inhibitor with Activity in Multiple Molecularly Defined Cancer Indications. *Mol Cancer Ther*. 2016 Apr;15(4):628-39.
- [4]. Iyer R, et al. Entrectinib is a potent inhibitor of Trk-driven neuroblastomas in a xenograft mouse model. *Cancer Lett*. 2016 Mar 28;372(2):179-86.

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