

Product Name	: Entrectinib
Synonyms	: NMS-E628; RDX-101; NMS-01191372
Cat No.	: M10406
CAS Number	: 1108743-60-7
Molecular Formula	: C ₃₁ H ₃₄ F ₂ N ₆ O ₂
Formula Weight	: 560.64
Chemical Name	: Benzamide, N-[5-[(3,5-difluorophenyl)methyl]-1H-indazol-3-yl]-4-(4-methyl-1-piperazinyl)-2-[(tetrahydro-2H-pyran-4-yl)amino]-
Description	Entrectinib (NMS-E628, RDX-101, NMS-01191372) is a potent, ATP-competitive, orally available pan-TRK, ROS1 and ALK inhibitor with IC₅₀ of 1/3/5/12/7 nM for TRKA/TRKB/TRKC/ALK/ROS1, respectively; exhibits high antiproliferative activity against colorectal carcinoma cell line KM12 with IC₅₀ of 17 nM, abolishes autophosphorylation of TPM3-TRKA, concomitant with complete inhibition of the phosphorylation of PLCγ1, AKT, and MAPK; induces regression in relevant human xenograft tumors, including the TRKA-dependent colorectal carcinoma KM12, ROS1-driven tumors, and several ALK-dependent models. Lung Cancer Phase 2 Clinical
Pathway	: Tyrosine Kinase
Target	: Trk Receptor
Receptor	: ALK; ROS1; TrkA; TrkB; TrkC
Solubility	: DMSO: ≥ 31 mg/mL
SMILES	: <chem>O=C(NC1=NNC2=C1C=C(CC3=CC(F)=CC(F)=C3)C=C2)C4=CC=C(N5CCN(C)CC5)C=C4N6CCCCO6</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Menichincheri M, et al. J Med Chem. 2016 Apr 14;59(7):3392-408. | 2. Ardini E, et al. Mol Cancer Ther. 2016 Apr;15(4):628-39. | 3. Rolfo C, et al. Expert Opin Investig Drugs. 2015;24(11):1493-500. | 4. Russo M, et al. Cancer Discov. 2016 Jan;6(1):36-44.