

Product Name	: REDX-05358
Synonyms	: REDX 05358; REDX05358
Cat No.	: M12942
CAS Number	: 1884226-20-3
Molecular Formula	: C ₂₆ H ₂₁ ClN ₄ O ₃
Formula Weight	: 472.93
Chemical Name	: 5-[[3-[5-(2-Chlorophenyl)-1H-imidazol-2-yl]chroman-6-yl]oxy]-3,4-dihydro-1H-1,8-naphthyridin-2-one
Description	REDX-05358 is a novel potent, highly selective, orally bioavailable pan RAF inhibitor with IC₅₀ of 0.1, 0.68, 0.171, and 0.076 nM for ARAF, BRAF, BRAF (V600E), and CRAF, respectively; demonstrates high selectivity profile against a panel of 468 kinases, exhibits negligible paradoxical activation due to inhibition of both RAF monomers and dimers; not only inhibits MAPK signalling in BRAF V600E mutant tumor cells, but also in those harbouring NRAS and KRAS mutations; exhibits in vivo efficacy in BRAF V600E CRC xenograft model.
Pathway	: MAPK/ERK Signaling
Target	: Raf
Receptor	: Raf
Solubility	: —
SMILES	: <chem>O=C(C(C1)NC2=C1C(OC3=CC(CC(C4=NC=C(C5=CC=CC=C5Cl)N4)CO6)=C6C=C3)=CC=N2</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Helen Mason, et al. AACR, Abstract 5160.

