



Product Information

Keap1-Nrf2 inhibitor RTA-408, Purity $\geq 98\%$

Cat. No.: X23-10-ZQ602

Size: 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD28167769

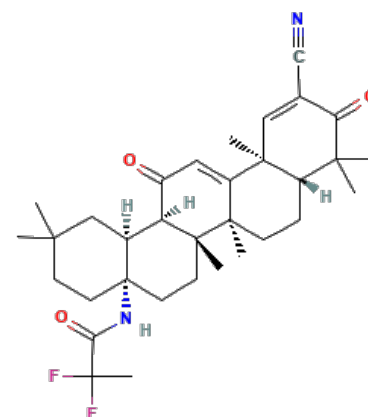
CAS Number: 1474034-05-3

Compound CID: 71811910

Synonym: Omaveloxolone; 1474034-05-3; RTA-408; RTA 408; Nrf1-activator-1;

SKYCLARYS; Keap1-Nrf2 inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	RTA-408, soluble in DMSO and ethanol and insoluble in water, is an active small molecule compound that mediates the Keap1-Nrf2 signaling pathway. It targets Nrf2.
Molecular Weight	554.71
Molecular Formula	C ₃₃ H ₄₄ F ₂ N ₂ O ₃
Targets	Nrf2
IUPAC Name	<i>N</i> -[[(4a <i>S</i> ,6a <i>R</i> ,6b <i>S</i> ,8a <i>R</i> ,12a <i>S</i> ,14a <i>R</i> ,14b <i>S</i>)-11-Cyano-2,2,6a,6b,9,9,12a-heptamethyl-10,14-dioxo-1,3,4,5,6,7,8,8a,14a,14b-decahydropicen-4a-yl]-2,2-difluoropropanamide
InChI	InChI=1S/C33H44F2N2O3/c1-27(2)11-13-33(37-26(40)32(8,34)35)14-12-31(7)24(20(33)17-27)21(38)15-23-29(5)16-19(18-36)25(39)28(3,4)22(29)9-10-30(23,31)6/h15-16,20,22,24H,9-14,17H2,1-8H3,(H,37,40)/t20-,22-,24-,29-,30+,31+,33-/m0/s1
InChI Key	RJCWBNBKOKFWNY-IDPLTSGASA-N
Canonical SMILES	CC1(CCC2(CCC3(C(C2C1)C(=O)C=C4C3(CCC5C4(C=C(C(=O)C5(C)C)C#N)C)C)NC(=O)C(C)(F)F)C
Isomeric SMILES	C[C@@]12CC[C@]3(CCC(C[C@H]3[C@H]1C(=O)C=C4[C@]2(CC[C@@H]5[C@@]4(C=C(C(=O)C5(C)C)C#N)C)C)C)NC(=O)C(C)(F)F
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 98 mg/mL (176.66 mM); Water: Insoluble; Ethanol: 20 mg/mL (36.05 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Applications

RTA-408 can be leveraged in research looking at its potential as an activator of Nrf2 in oxidative stress and inflammatory diseases.

Storage

Store at -20°C.
