



Product Information

Ras inhibitor KY1220, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ255

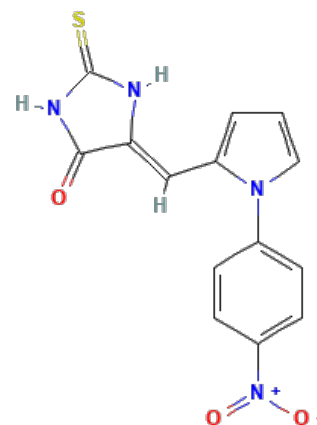
Size: 2 mg; 5 mg; 10 mg; 50 mg

CAS Number: 292168-79-7

Compound CID: 6011878

Synonym: 292168-79-7; Ras inhibitor; KY 1220; KY-1220

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



Product Information

Description	KY1220, soluble in DMSO and insoluble in ethanol and water, blocks the activity of Ras proteins, which play a key role in cell signal transduction and are frequently implicated in oncogenic mutations.
Molecular Weight	314.32
Molecular Formula	C ₁₄ H ₁₀ N ₄ O ₃ S
IUPAC Name	(5Z)-5-[[1-(4-nitrophenyl)pyrrol-2-yl]methylidene]-2-sulfanylideneimidazolidin-4-one
InChI	InChI=1S/C14H10N4O3S/c19-13-12(15-14(22)16-13)8-11-2-1-7-17(11)9-3-5-10(6-4-9)18(20)21/h1-8H,(H2,15,16,19,22)/b12-8-
InChI Key	FMLUAKSJMUPACD-WQLSENKSSA-N
Canonical SMILES	C1=CN(C(=C1)C=C2C(=O)NC(=S)N2)C3=CC=C(C(=C3)[N+](=O)[O-]
Isomeric SMILES	C1=CN(C(=C1)/C=C\2/C(=O)NC(=S)N2)C3=CC=C(C(=C3)[N+](=O)[O-]
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 59 mg/mL (187.7 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	KY1220 is a Ras signaling pathway inhibitor, contributing to understanding and targeting Ras-driven cancers.



Storage

Store at -20°C, and keep desiccated.
