

ERK-IN-2

Chemical Properties

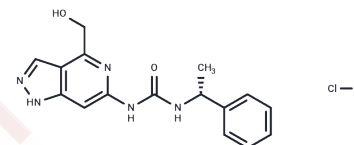
CAS No. : 2743576-56-7

Formula: C₁₆H₁₈ClN₅O₂

Molecular Weight: 347.80

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ERK-IN-2, an ERK2 inhibitor, exhibits an IC ₅₀ value of 1.8 nM. At doses greater than 10 μM, it may induce off-target toxicity and/or activity [1].
Targets(IC ₅₀)	ERK
In vitro	The criteria of inhibitor probe: Inhibitor potency: goal is 100 nM (IC ₅₀); Selectively with target family: >30-fold. We recommend ERK-IN-2 (MRK-ERKi) to be used at a concentration of 1 μM in cell-based experiments while not recommend doses >10 μM to be employed in any experiment. ERK-IN-2 (1 μM) has effects on cell proliferation in cancer cell lines. The IC ₅₀ values are 214 nM; 305 nM; 91 nM and 201 nM for A375SM cell, SK-MEL 30 cell; Colo 205 cell and Lovo cell, respectively [1].
In vivo	ERK-IN-2 (1 mpk; orally administration/0.5 mpk; intravenous injection) exhibits a DMPK value: h/r/d LM CLint: <17/235/<75 (mL/min/kg); uCLp:217 mL/min/kg; uVd 5.7 L/kg; t _{1/2} : 0.4 h; rat F:13% in SD rat [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8752 mL	14.3761 mL	28.7522 mL
5 mM	0.575 mL	2.8752 mL	5.7504 mL
10 mM	0.2875 mL	1.4376 mL	2.8752 mL
50 mM	0.0575 mL	0.2875 mL	0.575 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lv W, Huan M, Yang W, et al. Snail promotes prostate cancer migration by facilitating SPOP ubiquitination and degradation[J]. Biochemical and Biophysical Research Communications. 2020, 529(3): 799-804.

Lv W, Huan M, Yang W, et al. Snail promotes prostate cancer migration by facilitating SPOP ubiquitination and degradation. Biochemical and Biophysical Research Communications. 2020, 529(3): 799-804

Lv, Wei, et al. Snail promotes prostate cancer migration by facilitating SPOP ubiquitination and degradation. Biochemical and Biophysical Research Communications . 529.3 (2020): 799-804.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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