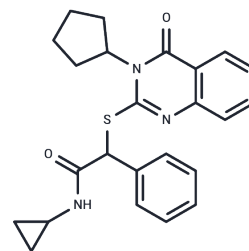


## ERBB agonist-1

## Chemical Properties

CAS No. :	930856-19-2
Formula:	C <sub>24</sub> H <sub>25</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	419.54
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	ERBB agonist-1 (Compound EF-1) is an ERBB4 agonist (EC <sub>50</sub> =10.5 μM) that induces ERBB4 receptor dimerization and phosphorylation of Akt and ERK1/2. It exhibits cardioprotective effects in mouse models and prevents myocardial fibrosis.
Targets(IC <sub>50</sub> )	ERK,EGFR,Akt

## Solubility Information

Solubility	DMSO: 80.00 mg/mL (190.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3836 mL	11.9178 mL	23.8356 mL
5 mM	0.4767 mL	2.3836 mL	4.7671 mL
10 mM	0.2384 mL	1.1918 mL	2.3836 mL
50 mM	0.0477 mL	0.2384 mL	0.4767 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

Cools JMT, et al. Small-molecule-induced ERBB4 activation to treat heart failure. Nat Commun. 2025;16(1):576. Published 2025 Jan 10.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481