

**Product Name:** EHT 1864

**Catalog No.:** 3872

**Batch No.:** 2

CAS Number: 754240-09-0

IUPAC Name: 5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyl)oxy)-2-(morpholinomethyl)-4H-pyran-4-one dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>27</sub>F<sub>3</sub>N<sub>2</sub>O<sub>4</sub>S.2HCl.H<sub>2</sub>O

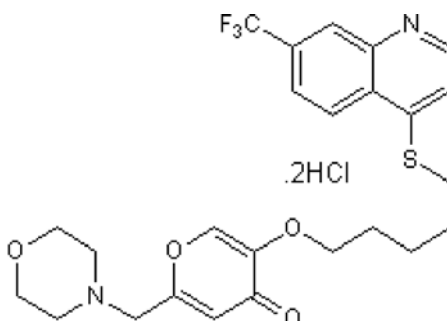
**Batch Molecular Weight:** 599.49

**Physical Appearance:** Beige solid

**Solubility:** water to 100 mM  
DMSO to 75 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	50.09	5.21	4.67
Found	49.95	5.4	4.38

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Inhibitor of Rac family GTPases. Blocks activation by direct binding to Rac1, Rac1b, Rac2 and Rac3 ( $K_D$  values are 40, 50, 60 and 250 nM respectively). Inhibits Rac, Ras and Tiam-induced growth transformation of NIH-3T3 fibroblasts. Reduces  $\beta$ -amyloid peptide production in vivo.

**Physical and Chemical Properties:**

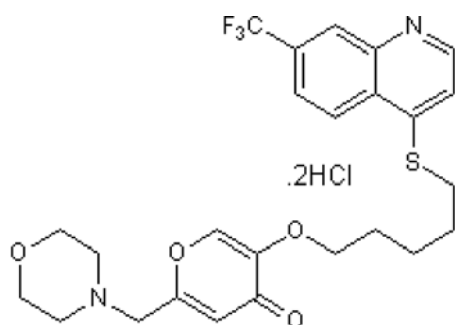
Batch Molecular Formula:  $C_{25}H_{27}F_3N_2O_4S \cdot 2HCl \cdot H_2O$

Batch Molecular Weight: 599.49

Physical Appearance: Beige solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 75 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

Sold for research use only under license from ExonHit Therapeutics S.A.

**References:**

**Onesto et al** (2008) Characterization of EHT1864, a novel small molecule inhibitor of Rac family small GTPases. *Methods Enzymol.* **439** 111. PMID: 18374160.

**Shutes et al** (2007) Specificity and mechanism of action of EHT 1864, a novel small molecule inhibitor of rac family small GTPases. *J.Biol.Chem.* **282** 35666. PMID: 17932039.

**Desire et al** (2005) RAC1 inhibition targets amyloid precursor protein processing by  $\gamma$ -secretase and decreases A $\beta$  production *in vitro* and *in vivo*. *J.Biol.Chem.* **280** 37516. PMID: 16150730.

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